

25X1

25X1C SECRET  
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NPIC/R-218/66  
15 January 1968

This is the twelfth group of items disseminated as part of NPIC/R-218/66, Southeast Asia Activity Report, POL Facilities, North Vietnam. Thirteen items are included in this portion of the report, 10 newly reported sites and 3 updated items. The updated items are as follows:

Dao Quan Petroleum Products Storage East, B47, B48, X-B47;  
Dao Quan Petroleum Products Storage West, B49, B50, X-B49; and  
Phu Lo Petroleum Products Storage NNE Underground, B95, B96, X-B95.

Each new or updated page carries the date of the covering memo directly under the NPIC report number. NPIC will continue to disseminate new and updated items on a continuing basis as photography becomes available.

Declass Review by  
NIMA/DOD

DIA review(s)  
completed.  
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TITLE

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NPIC/R-218/66 12th Group 15 Jan. 1968

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25X1A

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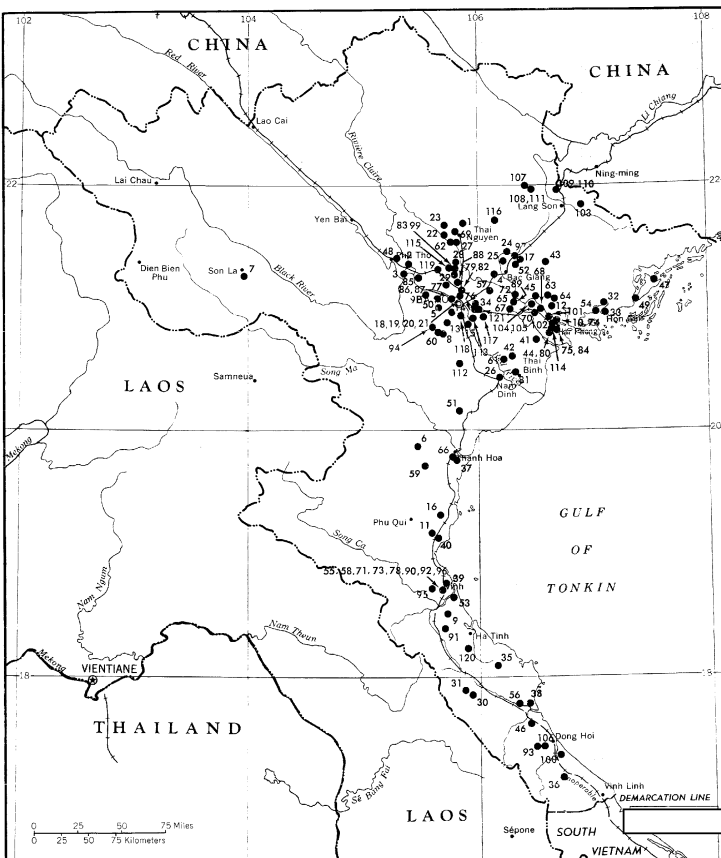
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NPIC/R-218/66  
15 January 1968

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KEY TO CATEGORY B  
DISPERSED STORAGE AREAS

1. La Danh Petroleum Products Storage PUG
2. Van Lung Petroleum Products Storage UG
3. Van Lung Petroleum Products Storage West UG
4. Hoang Mai POL Storage Area
5. Ha Noi Petroleum Products Thi Cam
6. Bai Thung Petroleum Products Storage UG Southeast
7. Son La Petroleum Products Storage
8. Thuong Thon Petroleum Products Storage UG
9. Ngoc Son Petroleum Products Storage PUG
10. Thai Lai Petroleum Products Storage
11. Yen Hau Petroleum Products Storage PUG
12. Thanh Lang Petroleum Products Storage PUG
13. Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)
14. Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)
15. Bang So Petroleum Products Storage PUG
16. Son Chau Petroleum Products Storage PUG
17. Can Thon Petroleum Products Storage
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28. Phu Yen Airfield POL Storage Area 1
29. Phu Yen Airfield POL Storage Area 2
30. Nom Duong Quan Petroleum Products Storage UG East
31. Nom Duong Quan Petroleum Products Storage UG
32. Nui Tap Tinh POL Storage Area
33. Sac Le POL Storage Area
34. Phu Dong POL Storage Area
35. Thuan Le POL Storage Area
36. Phu Loc Petroleum Products Storage
37. Thanh Hoa POL Storage Area
38. Ba Don Petroleum Products Storage
39. Phu Loi Petroleum Products Storage Navy
40. Tho Trang Petroleum Products Storage
41. Ninh Giang Petroleum Products Storage
42. Dong Chau Petroleum Products Storage
43. Kep Ha Petroleum Products Storage
44. Tien Hoi Petroleum Products Storage
45. Dong Mai Petroleum Products Storage
46. Noni Lang POL Storage
47. Van Hoa POL Storage
48. Phu Lo Petroleum Products Storage NNE UG
49. Jaune Island POL Storage
50. Co Nhue Vien Petroleum Products Storage
51. Quang Suoi Petroleum Products Storage
52. Trung Phu Petroleum Products Storage
53. Gia Hoa Petroleum Products Storage PUG
54. Bai Chay Petroleum Products Storage
55. Vinh Petroleum Products Storage Yen Thinh
56. Ba Don Petroleum Products Storage PUG West
57. Bac Ninh Petroleum Products Storage
58. Vinh Petroleum Products Storage PUG Xuan Yen
59. Tri Binh Petroleum Products Storage
60. Xuyen Duong Petroleum Products Storage
61. Cau Cong Petroleum Products Storage
62. Tung Tu Petroleum Products Storage UG
63. Don Son Petroleum Products Storage
64. Quy Khe Petroleum Products Storage
65. Tran Xa Petroleum Products Storage
66. Thanh Hoa Petroleum Products Storage
67. Tram Du Petroleum Products Storage
68. Luc Nong Petroleum Products Storage
69. Thai Nguyen Petroleum Products Storage
70. Tien Nong Petroleum Products Storage
71. Vinh Petroleum Products Storage PUG Ben Thuy
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74. Hoang Pha Petroleum Products Storage
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80. Tram Bac Petroleum Products Storage
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93. Cu Hap Petroleum Products Storage
94. Xuan Mai Petroleum Products Storage
95. Dong Xuan Petroleum Products Storage
96. Vinh Petroleum Products Storage SE PUG
97. Kep Petroleum Products Storage
98. Dong Sang Petroleum Products Storage
99. Lap Tri Petroleum Products Storage
100. Long Dai Petroleum Products Storage
101. Luc Nong Petroleum Products Storage
102. Quynh Hoang Petroleum Products Storage
103. Lang Son Petroleum Products Storage SE
104. Na Son Petroleum Products Storage
105. Cam Lam Thung Petroleum Products Storage
106. Phu Qui Petroleum Products Storage PUG No 2
107. Khon Phai Dan Petroleum Products Storage
108. Na Pia Petroleum Products Storage NW
109. Dong Dang Petroleum Products Storage No 2
110. Dong Dang Petroleum Products Storage No 1
111. Na Pia Petroleum Products Storage
112. Lang Coc Petroleum Products Storage



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R-218/66  
27 September 1966

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KEY TO CATEGORY B  
DISPERSED STORAGE AREAS

- 113. Binh Phu Petroleum Products Storage North
- 114. Kieu Yen Thuong Petroleum Products Storage
- 115. Hien Luong Petroleum Products Storage
- 116. Hoa Ha Petroleum Products Storage
- 117. Ban Yen Nhan Petroleum Products Storage
- 118. Quynh Do Petroleum Products Storage
- 119. Tien Huong Petroleum Products Storage
- 120. Bau Me Petroleum Products Storage
- 121. Duong Xa Petroleum Products Storage

	WJ877956	2139N 10550E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: LA DANH PETROLEUM PRODUCTS STORAGE PUG

LOCATION: 4.1 NM NORTH OF THAI NGUYEN AND 0.8 NM EAST OF VAN HAO

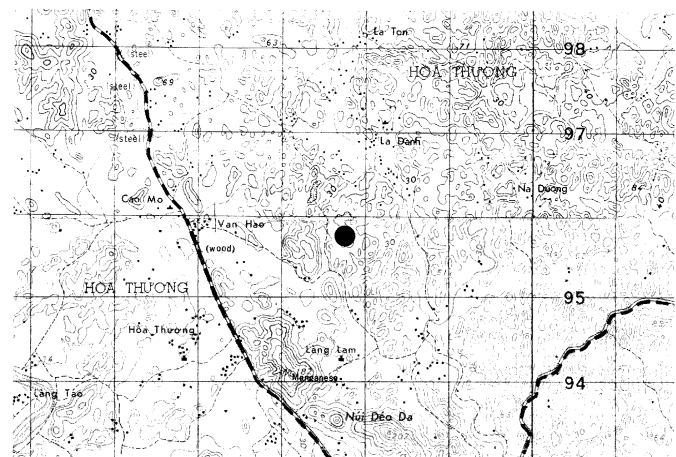
DESCRIPTION: STORAGE AREA CONSISTS OF 2 ADJACENT SITES. EAST AREA CONTAINS APPROXIMATELY 116 BUNKERED TANKS, 6 UNBURIED MEDIUM TANKS, 15 EXCAVATIONS, AND APPROXIMATELY 4,000 DRUMS DISPERSED UNDER TREES. WEST AREA, 0.3 NM WEST, CONTAINS AT LEAST 475 DRUMS IN OPEN STORAGE AND IN 9 EXCAVATIONS AND 9 ADDITIONAL EXCAVATIONS. BOMB CRATERS ARE OBSERVED IN EACH AREA.

ESTIMATED CAPACITY: TANK 1,464 MT DRUM 895 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6175-I, 1ST ED, OCT 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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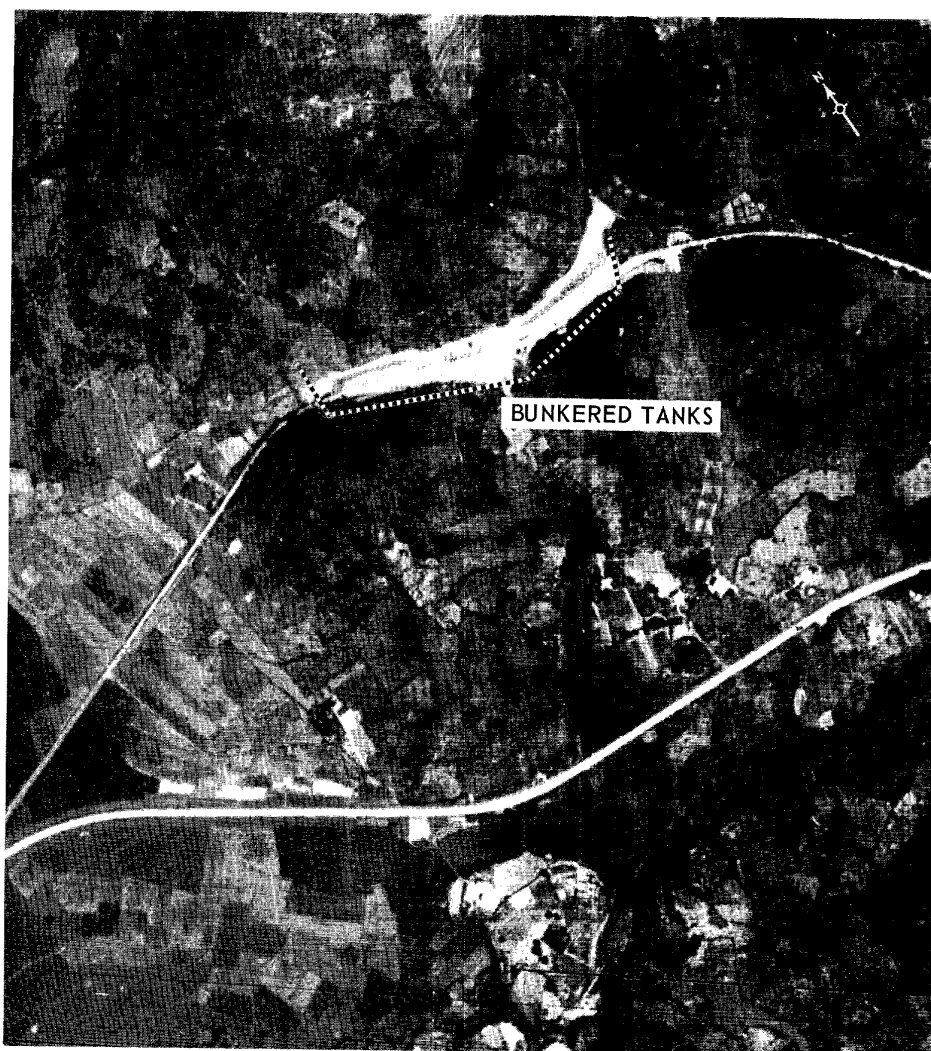
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25X1C SECRET R-218/66  
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CU VAN PETROLEUM PRODUCTS STORAGE EAST UG  
WJ774926 2138N 10544E  
UTM COORDINATES GEOGRAPHIC COORDINATES



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25X1C<sup>B46</sup> SECRET  
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SECRET

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15 January 1968

	XJ249708	212610N 1061222E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: DAO QUAN PETROLEUM PRODUCTS STORAGE EAST

LOCATION: 0.1 NM EAST OF DAO QUAN ON SOUTH BANK OF THE SONG THUONG.

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS THE STORAGE AREA BEING ESTABLISHED AND CONTAINING 37 TANKS. [REDACTED] REVEALS EFFORTS TO REMOVE THE TANKS FROM THE SITE. SIX TANKS IN OPENED EXCAVATIONS, 1 TANK ABOVEGROUND, AND 32 EMPTY EXCAVATIONS REMAIN.

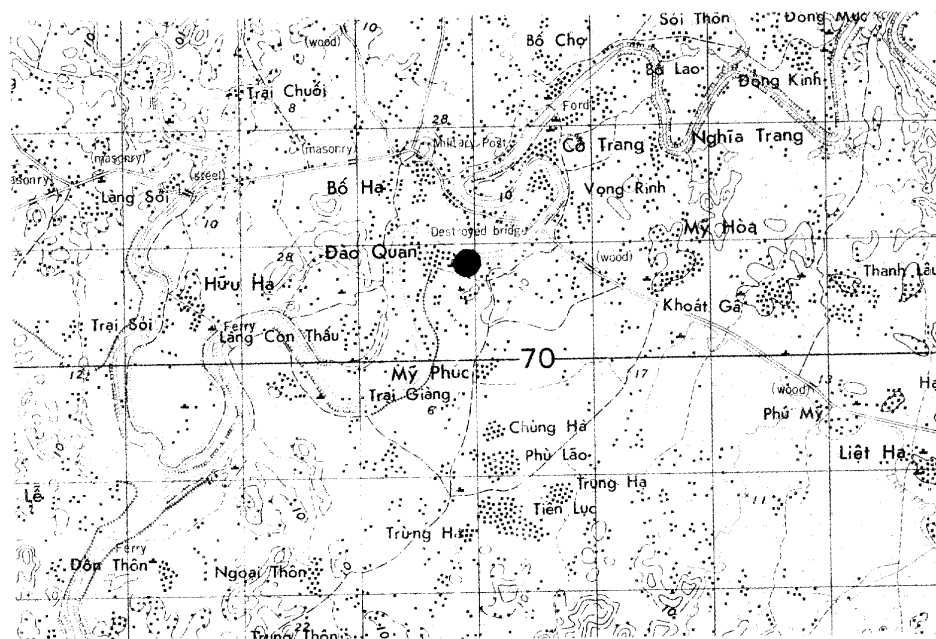
25X1D

25X1

ESTIMATED CAPACITY: PRE-STRIKE TANK 444 MT  
POST-STRIKE TANK 84 MT  
MAP REFERENCES: AMS SERIES L7014, SHEET 6275-III, 1ST ED, APR 64 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



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DAO QUAN PETROLEUM PRODUCTS STORAGE EAST

XJ249708  
UTM COORDINATES

212610N 1061222E  
GEOGRAPHIC COORDINATES



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15 January 1968

25X1  
[REDACTED]  
BE NUMBER

XJ240696  
UTM COORDINATES

212530N 1061155E  
GEOGRAPHIC COORDINATES

NAME: DAO QUAN PETROLEUM PRODUCTS STORAGE WEST

LOCATION: 0.8 NM SSW OF DAO QUAN ON SOUTH BANK OF THE SONG THUONG.

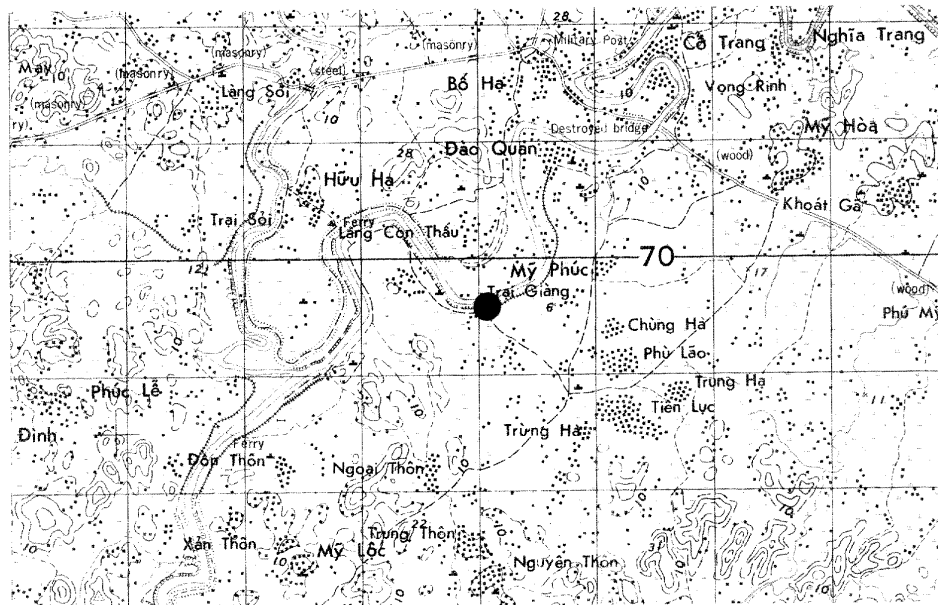
25X1D

25X1 DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS THE STORAGE SITE CONTAINING 32 BUNKERED TANKS. [REDACTED] REVEALS EFFORTS TO REMOVE TANKS. SEVENTEEN TANKS IN OPENED EXCAVATIONS, 5 TANKS ABOVEGROUND (1 PROBABLY DAMAGED), AND 7 EMPTY EXCAVATIONS REMAIN.

ESTIMATED CAPACITY: PRE-STRIKE TANK 384 MT

POST-STRIKE TANK 162 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6275 III, 1ST ED, APR 64 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



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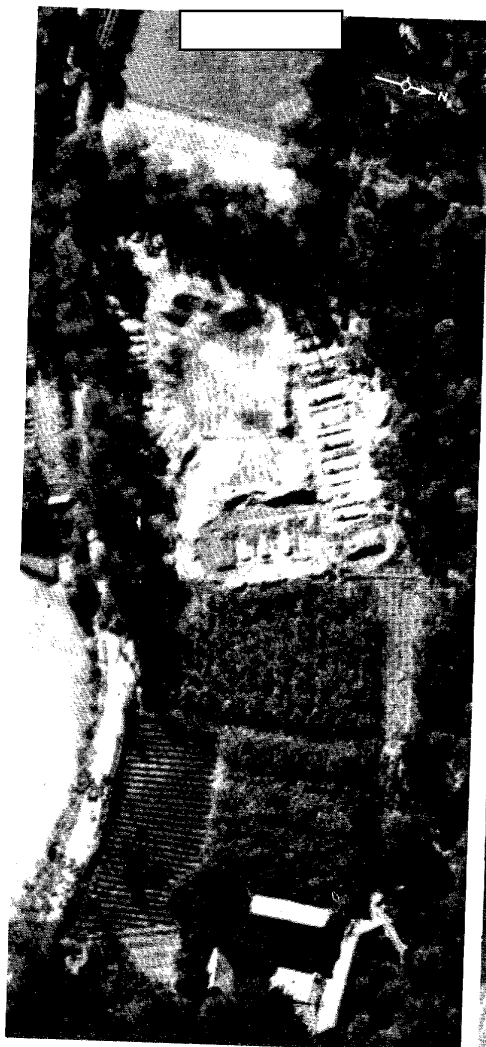
NPIC/R 218/66  
15 January 1968

DAO QUAN PETROLEUM PRODUCTS STORAGE WEST

XJ249708  
UTM COORDINATES

212530N 1061155E  
GEOGRAPHIC COORDINATES

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25X1

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BE NUMBER X4273612 UTM COORDINATES 2026N 10613E GEOGRAPHIC COORDINATES

NAME: NAM DINH PETROLEUM PRODUCTS STORAGE PUG

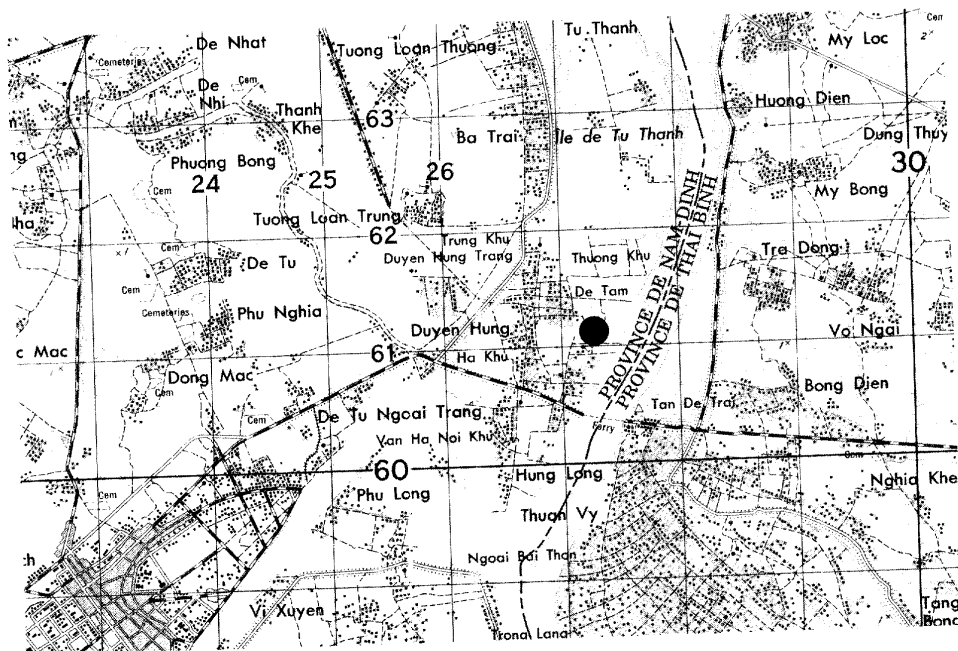
LOCATION: 3 NM NE OF NAM DINH ON WEST BANK OF RED RIVER

DESCRIPTION: STORAGE SITE CONSISTS OF 22 POL TANKS BURIED ON BOTH SIDES OF LOOP ROAD.

ESTIMATED CAPACITY: TANK 264 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6272 III 3D ED, APR 63 (U)  
 AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

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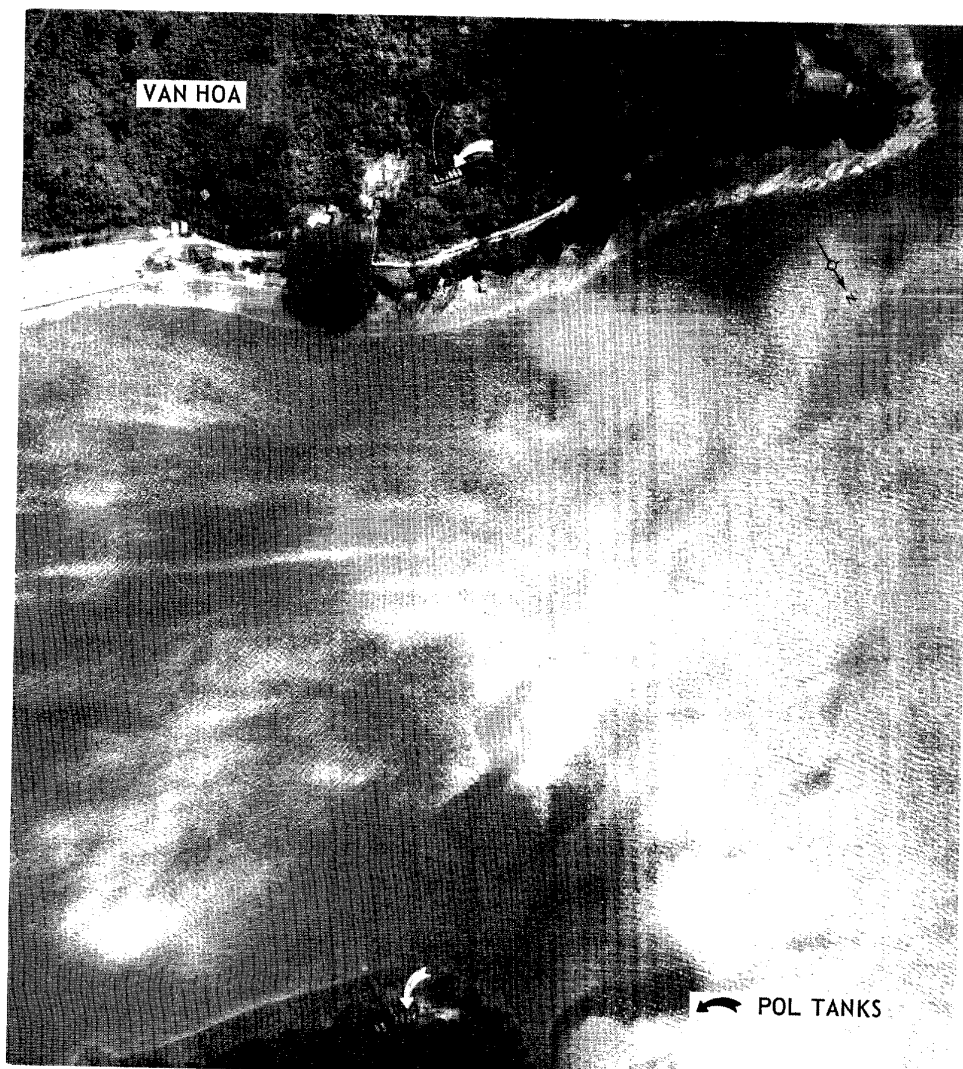
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VAN HOA POL STORAGE

R-218/66

YJ669467 YJ667464  
UTM COORDINATES

2112N 10734E  
GEOGRAPHIC COORDINATES



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BE NUMBER

WJ321688  
UTM COORDINATES

212455N 1051834E  
GEOGRAPHIC COORDINATES

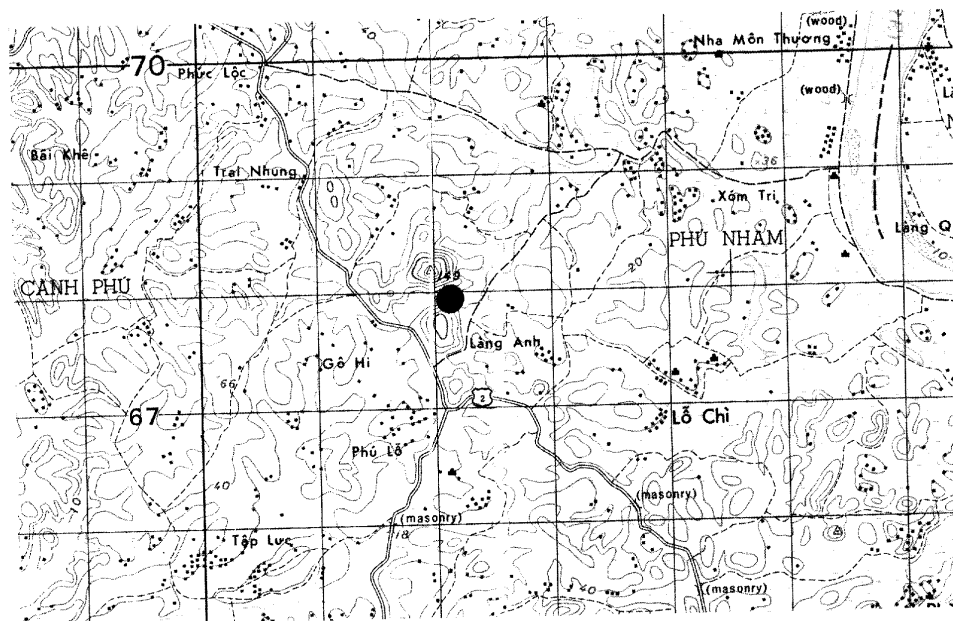
NAME: PHU LO PETROLEUM PRODUCTS STORAGE NNE UNDERGROUND

LOCATION: 0.2 NM NE OF ROUTE 2 AND 0.6 NM NNE OF PHU LO.

25X1  
DESCRIPTION: [REDACTED] REVEALS THE STORAGE SITE CONTAINING  
19 BUNKERED TANKS AND 8 EMPTY EXCAVATIONS. [REDACTED]  
REVEALS EFFORTS TO REMOVE TANKS FROM THE SITE WITH ALL ORIGINAL BUNKERED  
TANKS REMOVED AND NUMEROUS EMPTY EXCAVATIONS OBSERVED.

ESTIMATED CAPACITY: PRE-STRIKE TANK 228 MT  
POST-STRIKE TANK NONE

MAP REFERENCES: AMS SERIES L701, SHEET 6075-II, 1ST ED, JAN 64 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



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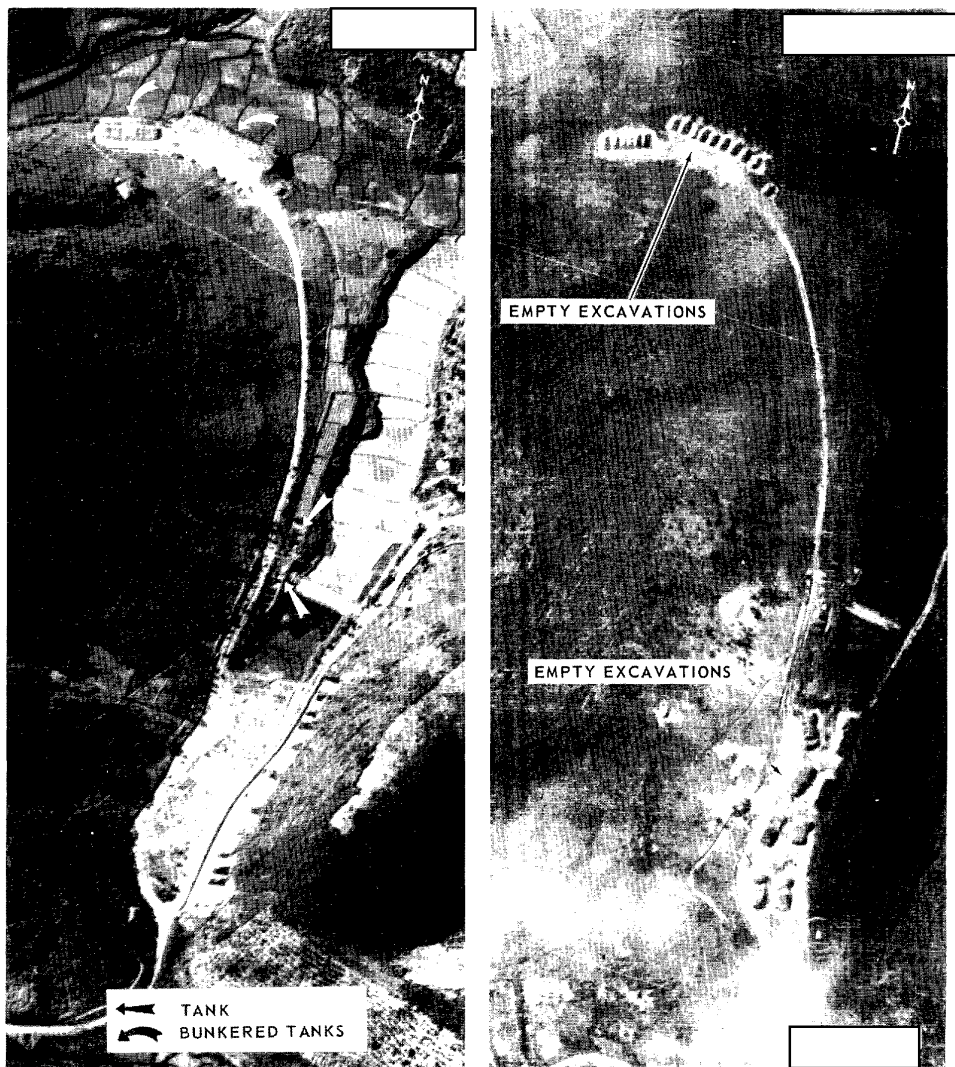
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19 January 1968

PHU LO PETROLEUM PRODUCTS STORAGE NINE UNDERGROUND

WJ321688  
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212455N 1051834E  
GEOGRAPHIC COORDINATES

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0616-  
BE NUMBER

YJ471281  
UTM COORDINATES

2102N 10722E  
GEOGRAPHIC COORDINATES

**NAME:** JAUNE ISLAND POL STORAGE

**LOCATION:** NE SIDE OF JAUNE ISLAND, 0.9 NM NNE OF CAM PHA PORT

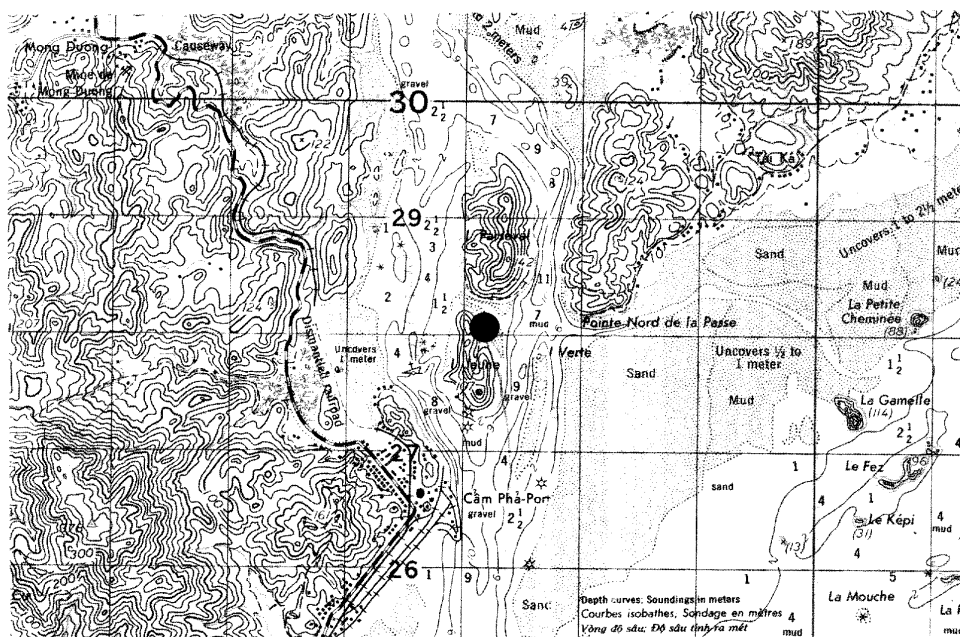
**DESCRIPTION:** AREA CONTAINS 4 PARTIALLY REVETTED POL TANKS ON THE SIDE OF A HILL.

**ESTIMATED CAPACITY:** TANK 48 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6451 II, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-12, 1ST ED, JUN 65 (U)

**PHOTO REFERENCE:**

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8 November 1967

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UTM COORDINATES

NA PIA PETROLEUM PRODUCTS STORAGE

215352N 1062614E  
GEOGRAPHIC COORDINATES



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BE NUMBER

WH862730  
UTM COORDINATES

203320N 1054939E  
GEOGRAPHIC COORDINATES 25X1

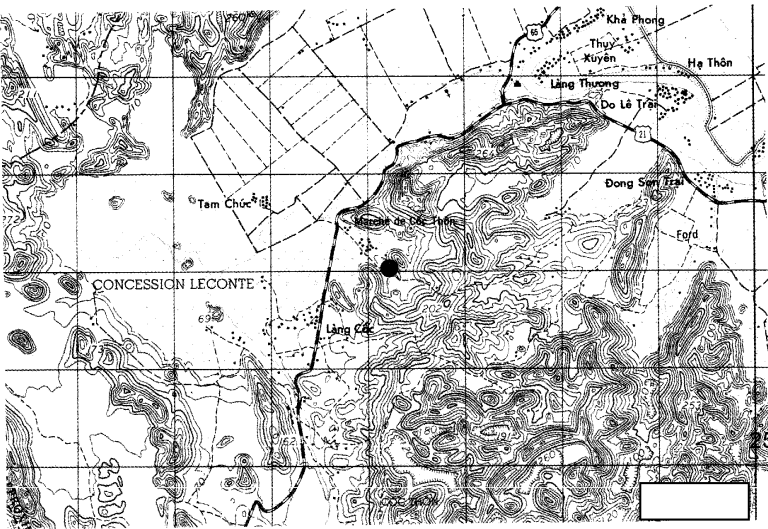
NAME: LANG COC PETROLEUM PRODUCTS STORAGE

LOCATION: 0.5 NM NE OF LANG COC, 0.3 NM EAST OF ROUTE 21, 1.2 NM SOUTH OF THE SONG DAY.

DESCRIPTION: SITE CONSISTS OF 15 INDIVIDUALLY BUNKERED LARGE TANKS.

ESTIMATED CAPACITY: TANK 375 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6150 II, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)



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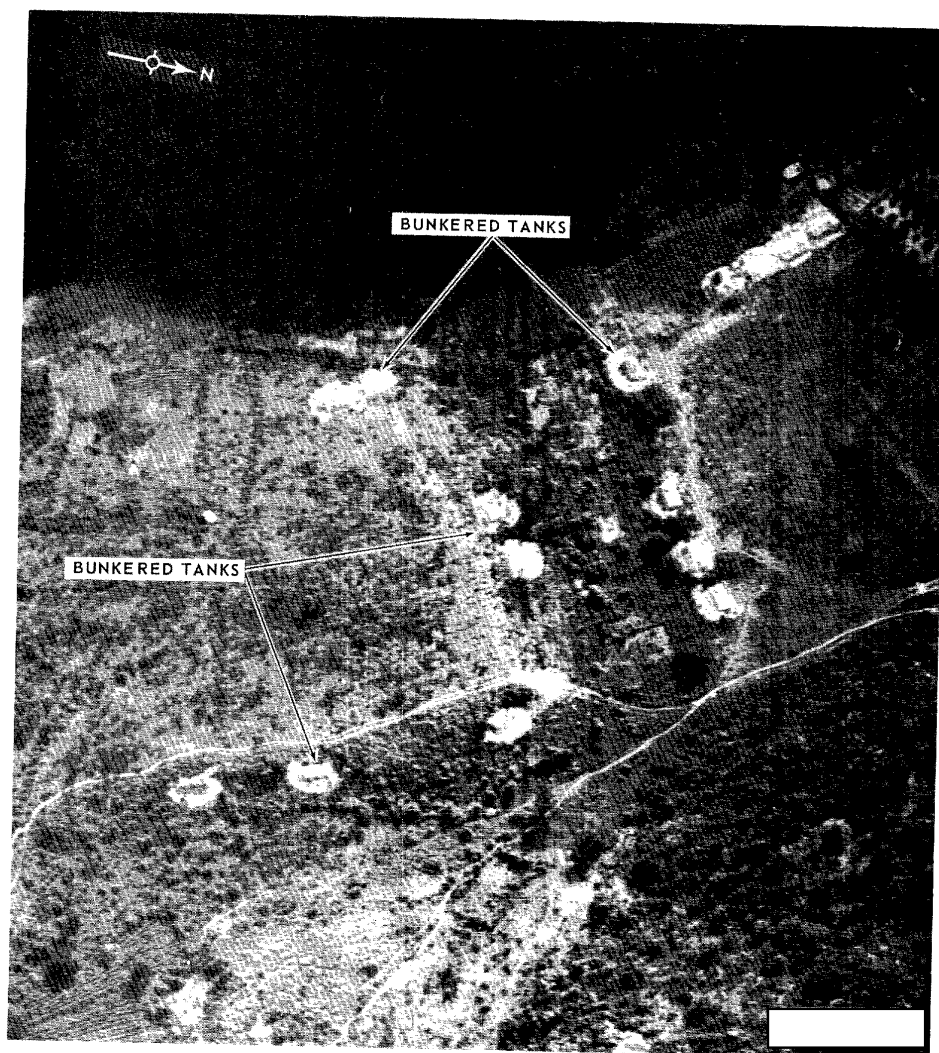
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LANG COC PETROLEUM PRODUCTS STORAGE

W1862730  
UTM COORDINATES

203320N 1054939E  
GEOGRAPHIC COORDINATES



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[REDACTED] XJ028105 205345N 1055920E  
BE NUMBER UTM COORDINATES GEOGRAPHIC COORDINATES

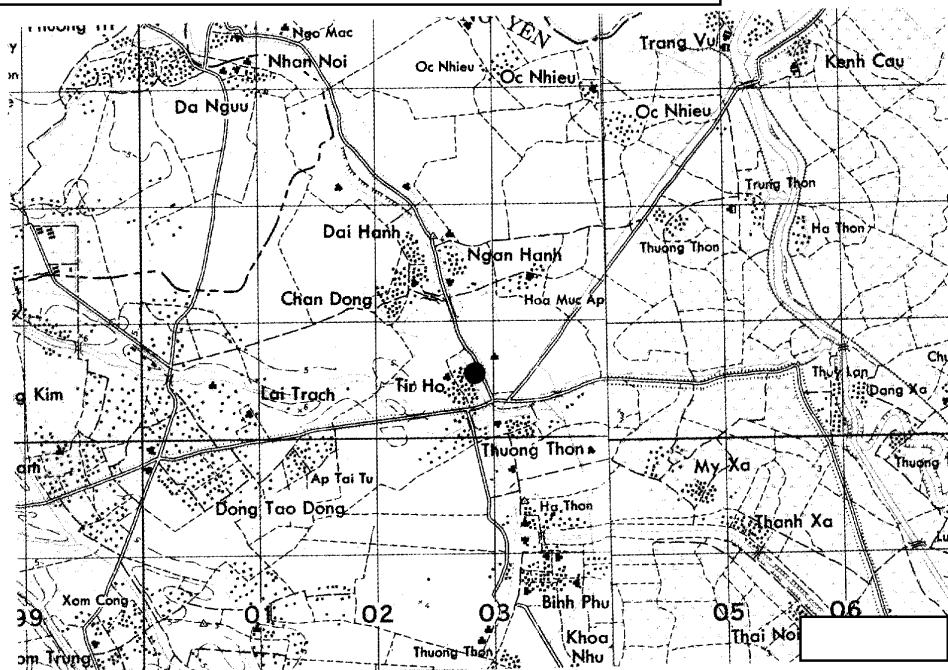
NAME: BINH PHU PETROLEUM PRODUCTS STORAGE NORTH

LOCATION: 1 NM NORTH OF BINH PHU, 4.4 NM EAST OF THE RED RIVER.

DESCRIPTION: AREA CONTAINS 8 TANKS IN OPEN EXCAVATIONS AND 3 TANKS ABOVE-GROUND.

ESTIMATED CAPACITY: TANK 132 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)



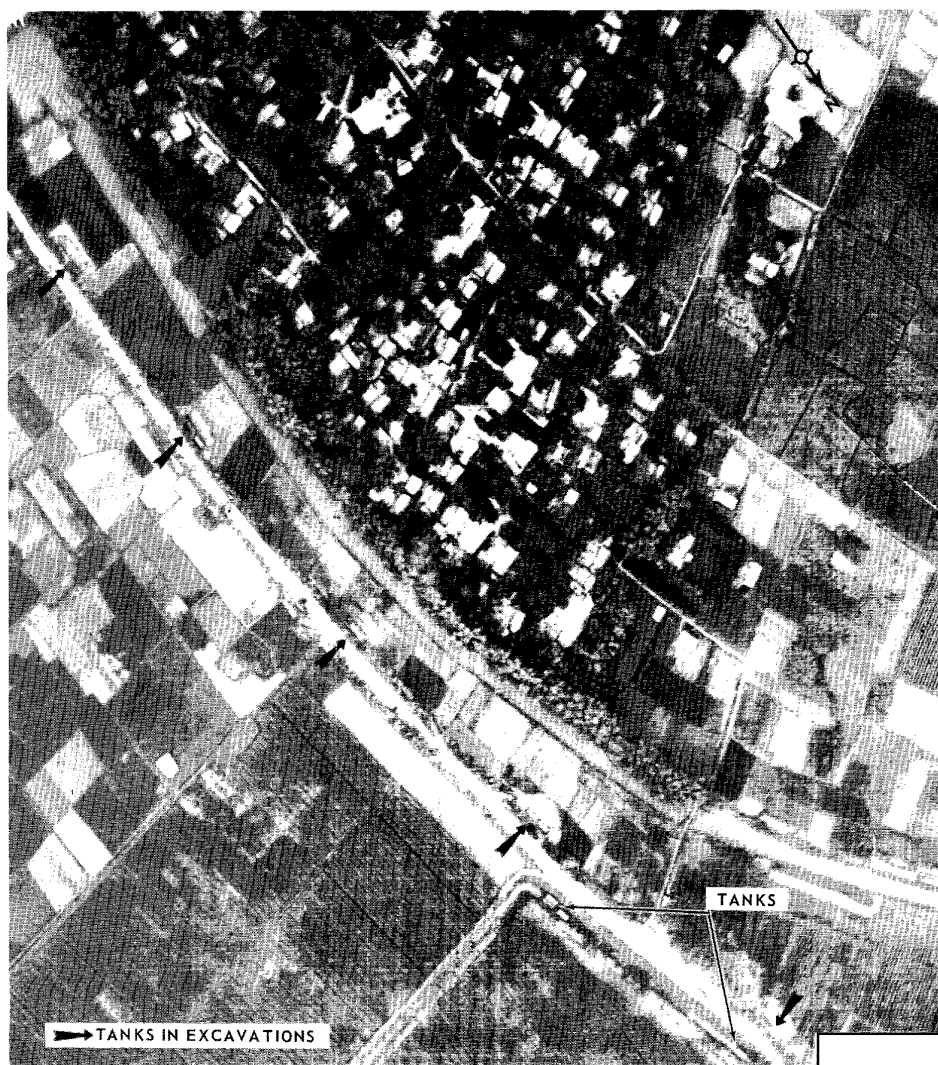
25X1

25X1C  
SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
NPIC/R-218/66  
January 1968

BINH PHU PETROLEUM PRODUCTS STORAGE NORTH

XJ028105  
UTM COORDINATES

205345N 1055920E  
GEOGRAPHIC COORDINATES



25X1

B226  
25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1

25X1C  
Approved For Release 2003/08/07 : CIA-RDP78B04560A005500010038-7  
NPIC R-218/66  
15 January 1968

25X1  
[REDACTED] XJ654047 205012N 1063525E  
BE NUMBER UTM COORDINATES GEOGRAPHIC COORDINATES

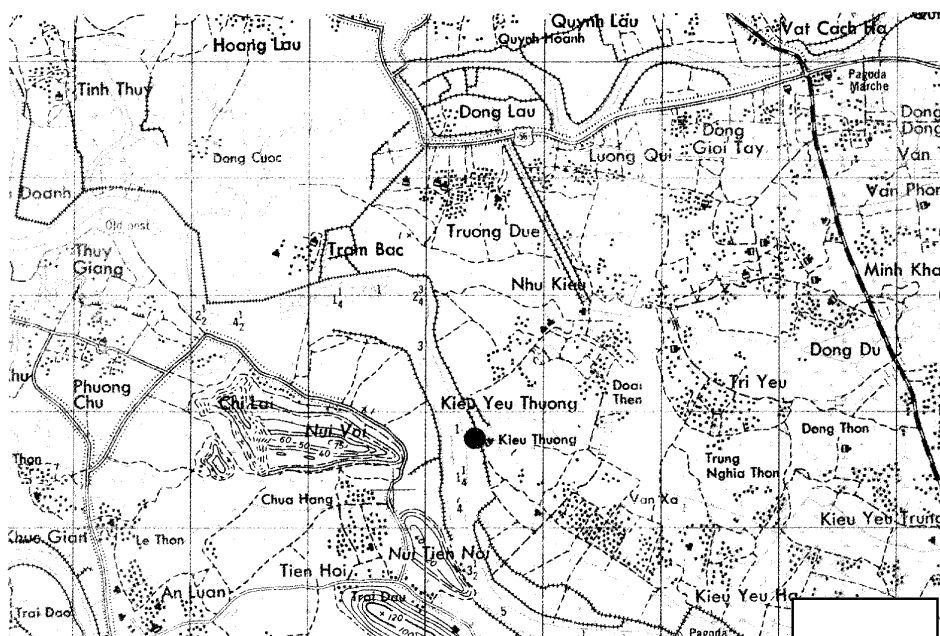
NAME: KIEU YEN THUONG PETROLEUM PRODUCTS STORAGE

LOCATION: 0.4 NM WSW OF KIEU YEN THUONG, 2.3 NM NNW OF KIEN AN AIRFIELD,  
ON THE EAST BANK OF THE LACH TRAY.

DESCRIPTION: AREA CONSISTS OF 5 BUNKERS WITH 3 TANKS IN EACH, FOR A TOTAL  
OF 15 TANKS.

ESTIMATED CAPACITY: TANK 180 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)



B227  
25X1C  
Approved For Release 2003/08/07 : CIA-RDP78B04560A005500010038-7

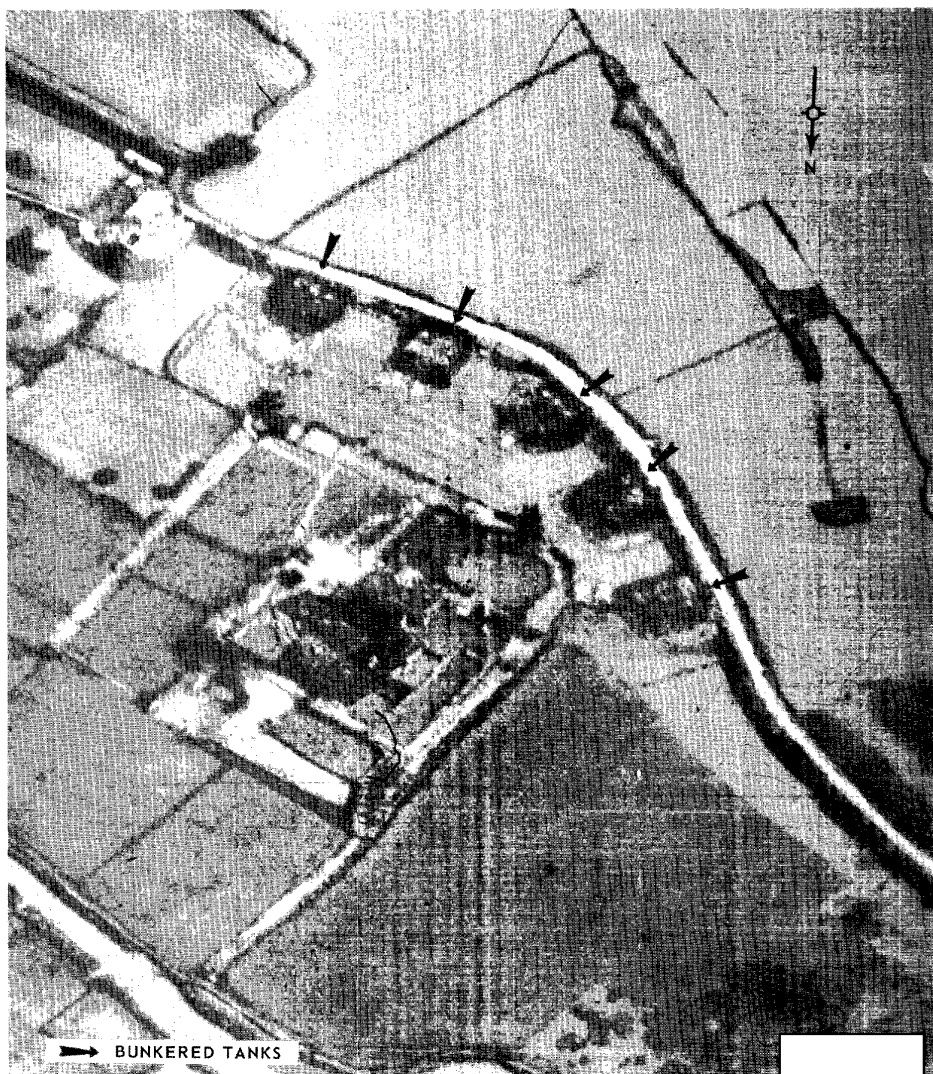
25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET  
NPIC/R-218/66  
January 1968

KIEU YEU THUONG PETROLEUM PRODUCTS STORAGE

XJ654047  
UTM COORDINATES

205012N 1063525E  
GEOGRAPHIC COORDINATES



25X1

B228

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET

25X1

25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010083-7R-218/66  
15 January 1968

0616-  
BE NUMBER

WJ808498  
UTM COORDINATES

211500N 1054640E  
GEOGRAPHIC COORDINATES

NAME: HIEN LUONG PETROLEUM PRODUCTS STORAGE

LOCATION: ALONG A SECONDARY ROAD, 0.6 NM WEST OF HIEN LUONG, 2.5 NM NW OF PHUC YEN AIRFIELD.

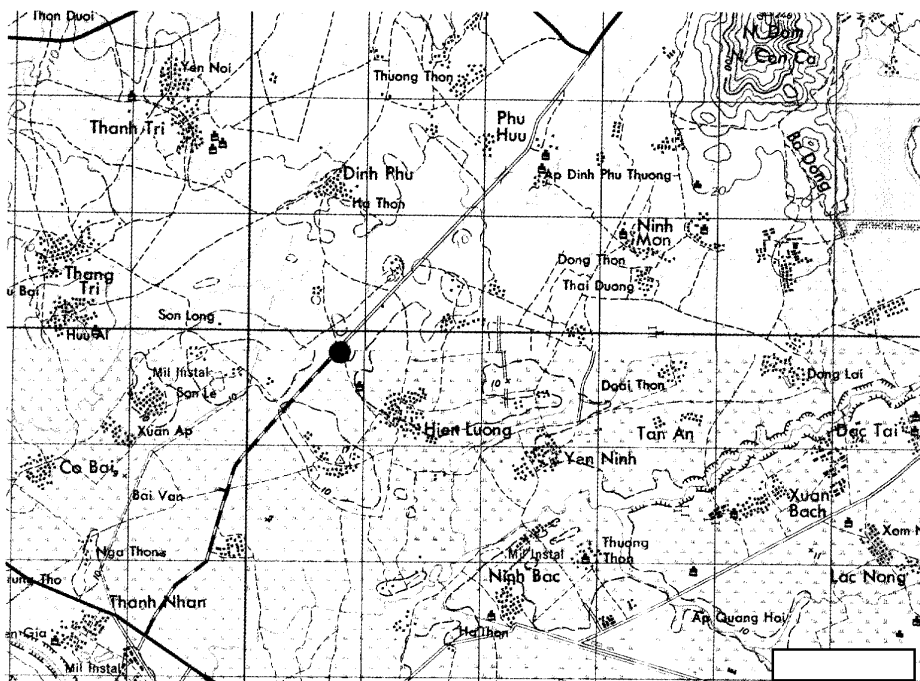
DESCRIPTION: STORAGE AREA CONSISTS OF 10 STORAGE TANKS SEPARATELY PLACED ALONG ROAD. FIVE ARE BUNKERED, 5 IN OPEN EXCAVATIONS.

ESTIMATED CAPACITY: TANK 120 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151 I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1D

PHOTO REFERENCE:



25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010083-7  
15 January 1968

25X1

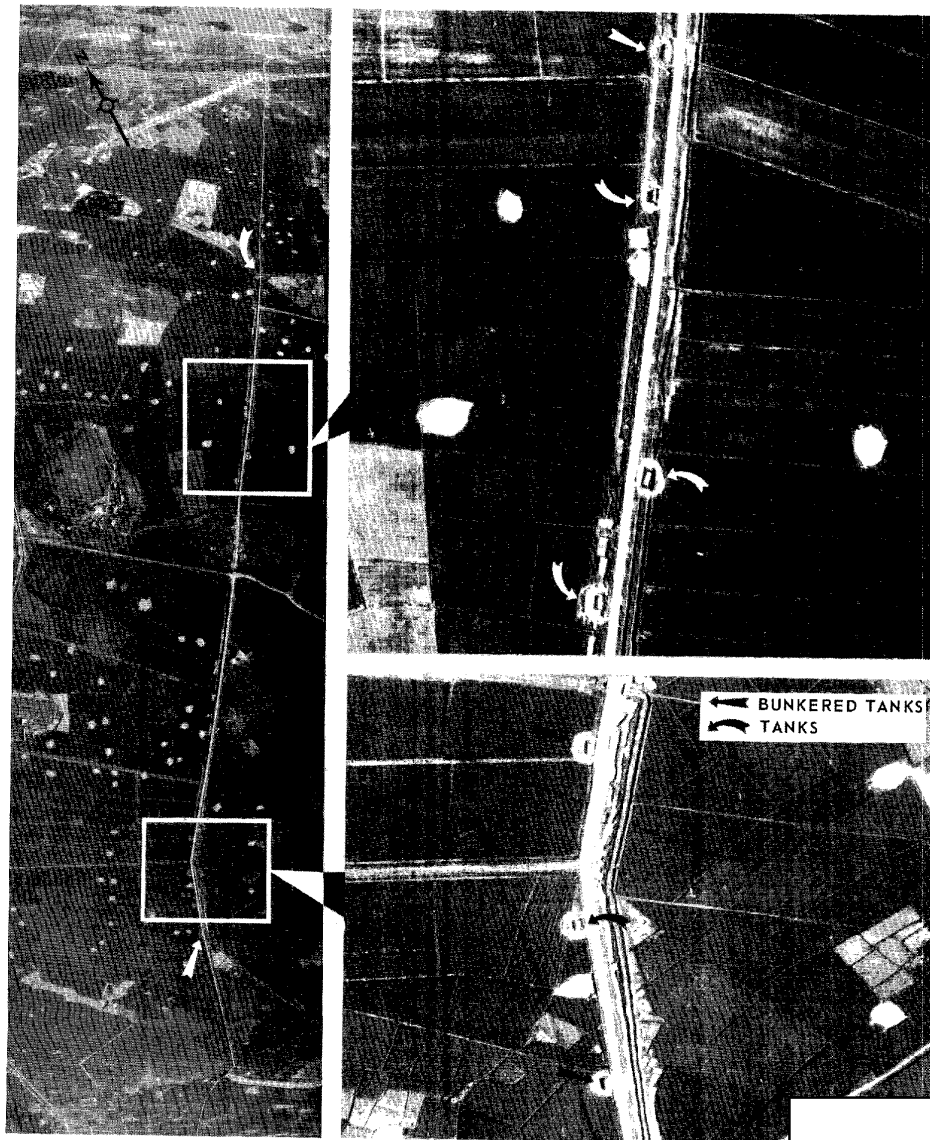
25X1

25X1C  
SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
NPIC/R-218/66  
15 January 1968

HIEN LUONG PETROLEUM PRODUCTS STORAGE

WJ808498  
UTM COORDINATES

211500N 1054640E  
GEOGRAPHIC COORDINATES



25X1

25X1C B230  
SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1

25X1C  
SECRET  
Approved For Release 2008/08/04 : CIA-RDP78B04560A005500010038-7  
NPIC/R-218/66

NAME: HOAN HA PETROLEUM PRODUCTS STORAGE

LOCATION: 1.3 NM WSW OF HOAN HA, NORTH OF ROUTE 1B.

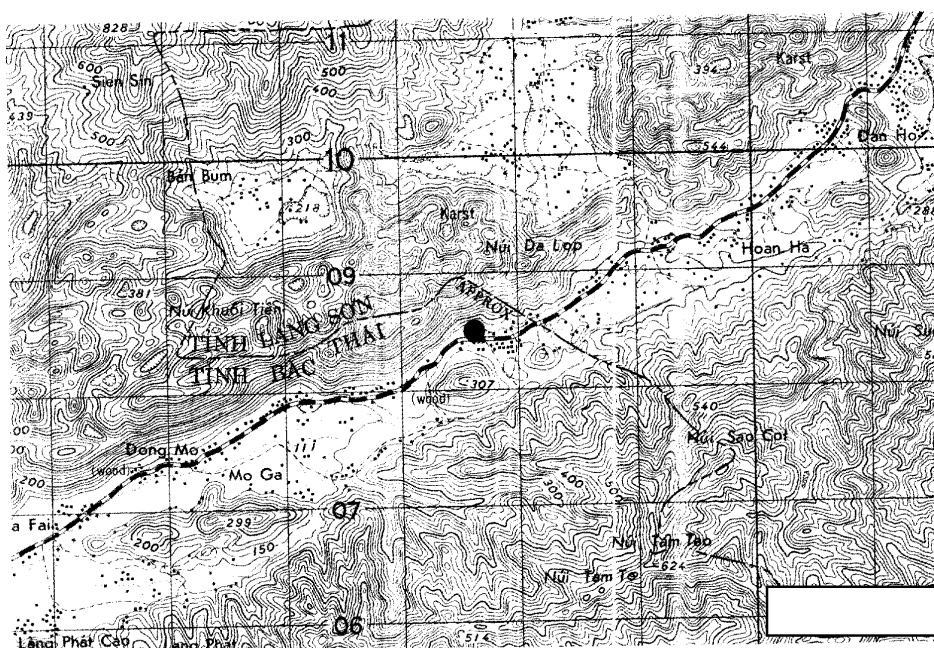
**DESCRIPTION:** STORAGE AREA CONSISTS OF 50 LARGE TANKS PARTIALLY UNDERGROUND AND BUNKERED IN GROUPS OF 2 AND 3.

ESTIMATED CAPACITY: TANK 1,250 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6252 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7



25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1C SECRET

NPIC/R-218/66

15 January 1968

HOAN HA PETROLEUM PRODUCTS STORAGE

XK176085  
UTM COORDINATES

214620N 1060818E  
GEOGRAPHIC COORDINATES



25X1

25X1

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1C SECRET

B232



25X1

25X1C  
 Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
 NPIC/B-238/66  
 15 January 1968

0616-	XJ058165	205650N 1060103E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: BAN YEN NHAN PETROLEUM PRODUCTS STORAGE

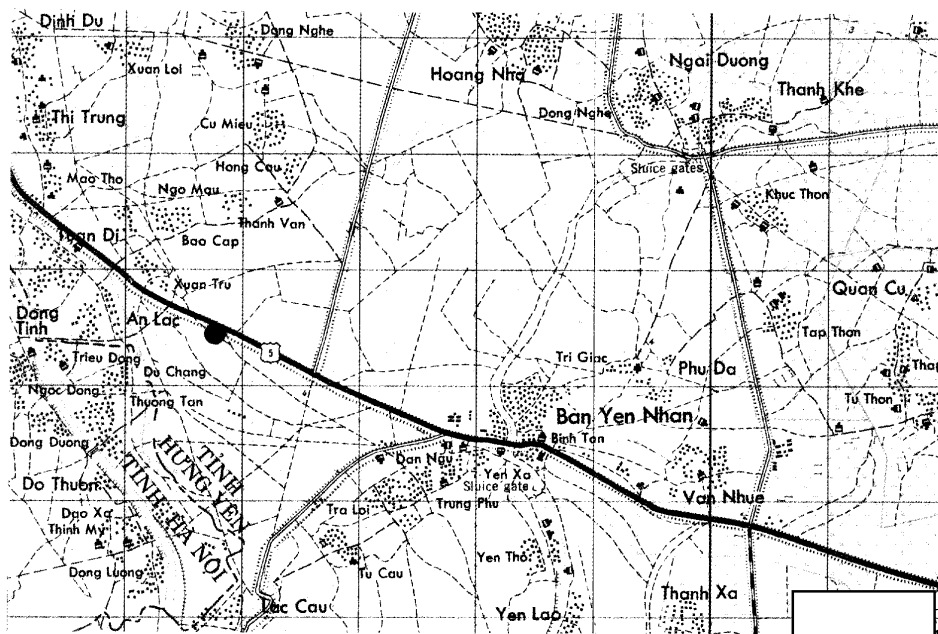
LOCATION: 1.5 NM NW OF BAN YEN NHAN, ALONG ROUTE 5.

DESCRIPTION: STORAGE AREA CONSISTS OF 15 LARGE BUNKERED TANKS, 6 STANDARD BUNKERED TANKS, AND 5 EMPTY EXCAVATIONS.

ESTIMATED CAPACITY: TANK 447 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6250 IV, 1ST ED, 1965 (U)  
 AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

25X1D PHOTO REFERENCE:



25X1

25X1C  
 Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
 B233  
 SECRET

25X1

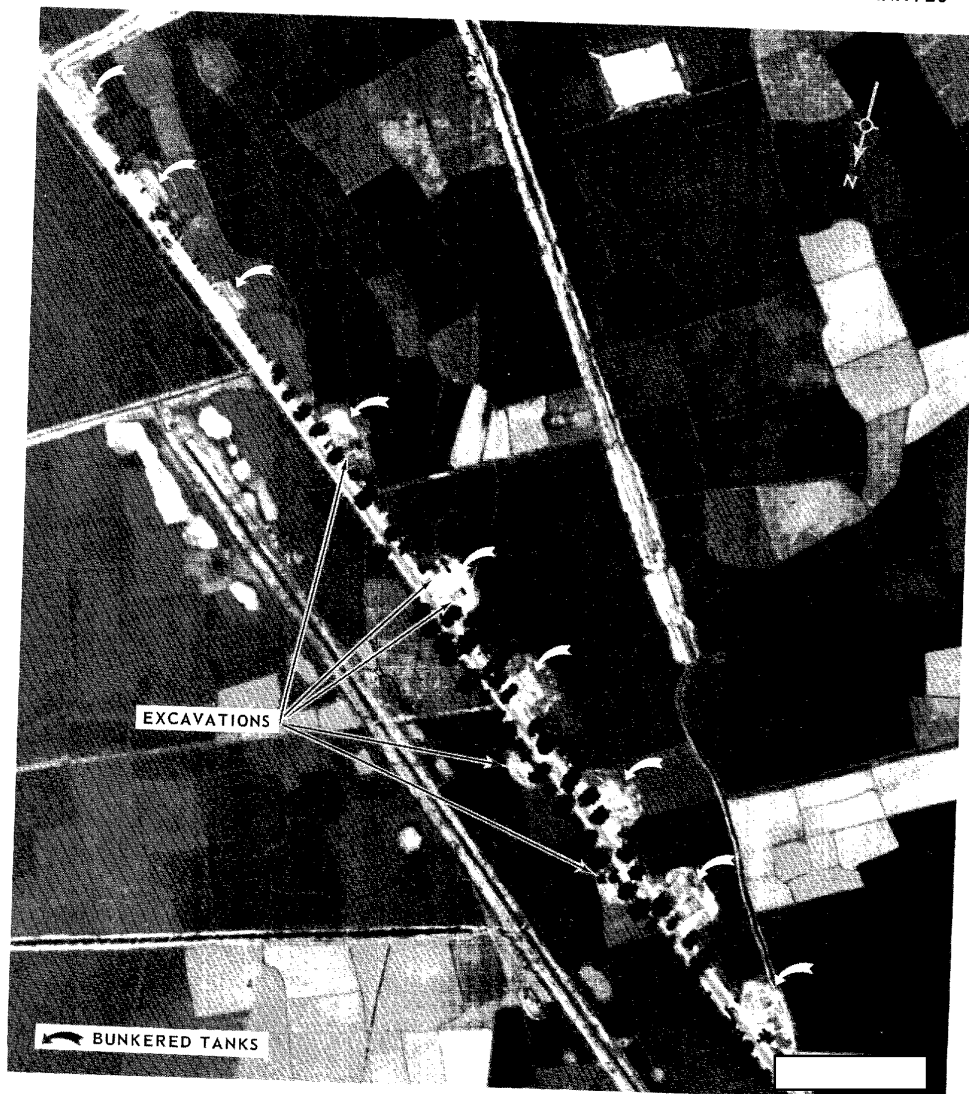
25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET  
PIC/R-218/66  
15 January 1968

BAN YEN NHAN PETROLEUM PRODUCTS STORAGE

XJ058165  
UTM COORDINATES

205650N 1060103E  
GEOGRAPHIC COORDINATES



25X1

B234

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET

25X1

25X1

25X1C  
 Approved For Release 2003/08/07 : CIA-RDP78B04560A005500010038-7  
 NPIC/R-218/66  
 1968

0616-	WJ865158	205631N 1054956E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: QUYNH DO PETROLEUM PRODUCTS STORAGE

LOCATION: 0.7 NM WEST OF QUYNH DO.

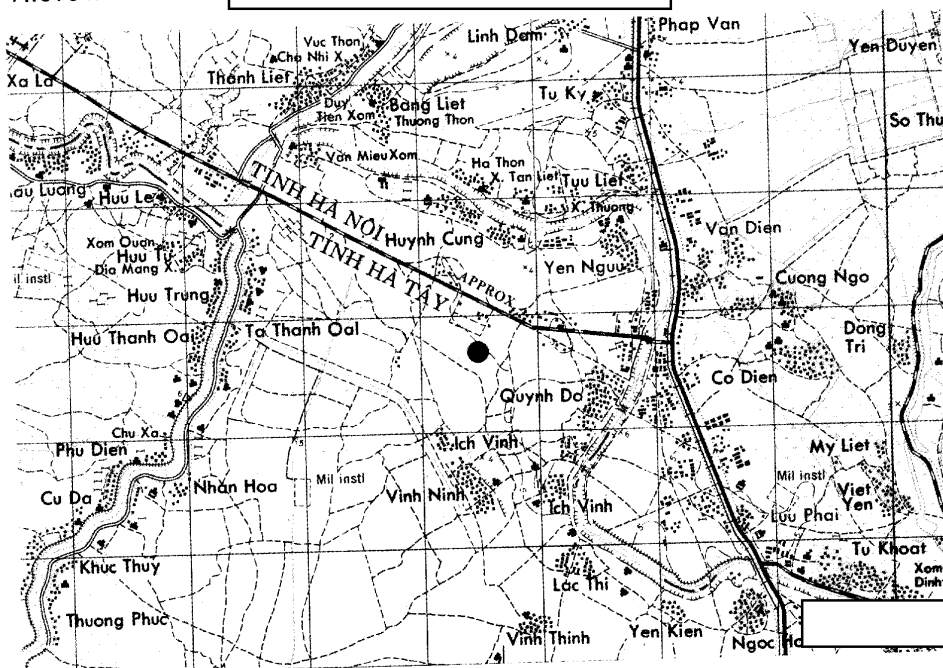
DESCRIPTION: STORAGE AREA CONSISTS OF 15 LARGE BUNKERED TANKS, 1 STANDARD BUNKERED TANK, 1 SMALL TANK ABOVEGROUND, AND 3 EMPTY EXCAVATIONS.

ESTIMATED CAPACITY: TANK 394 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)  
 AMS SERIES JOG(G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

25X1D

PHOTO REFERENCE: [REDACTED]



25X1

B235  
 25X1C  
 Approved For Release 2003/08/07 : CIA-RDP78B04560A005500010038-7

25X1

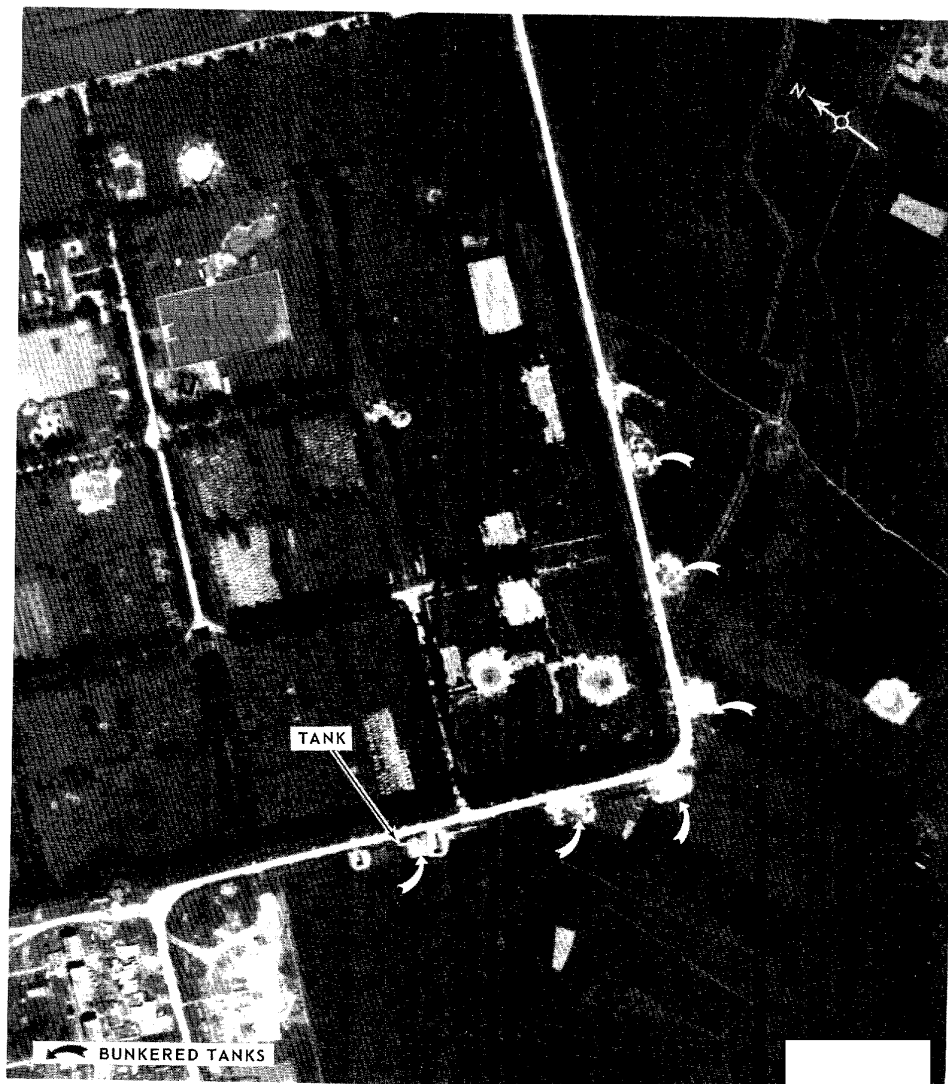
25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET  
NPIC/R-218/66  
15 January 1968

QUYNH DO PETROLEUM PRODUCTS STORAGE

WJ865158  
UTM COORDINATES

205631N 1054956E  
GEOGRAPHIC COORDINATES



25X1

25X1C

B236

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET

25X1

0616-	WJ677533	211655N 1053912E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: TIEN HUONG PETROLEUM PRODUCTS STORAGE

LOCATION: 1 NM NNW OF TIEN HUONG, IMMEDIATELY NORTH OF ROUTE 2 AND THE HA NOI/LAO CAI RAIL LINE.

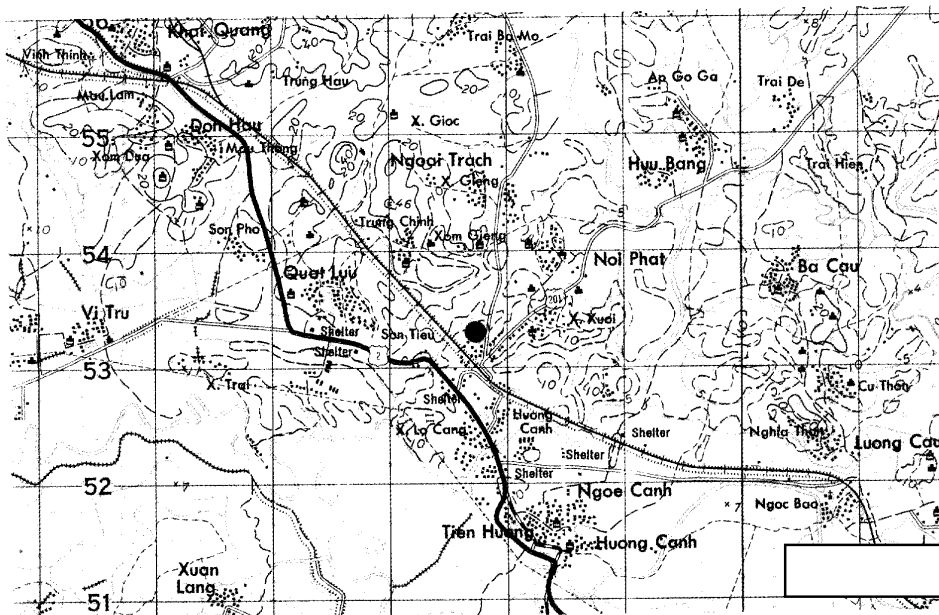
DESCRIPTION: STORAGE AREA CONSISTS OF A SINGLE ROW OF 13 BUNKERED TANKS ALONG A SECONDARY ROAD.

ESTIMATED CAPACITY: TANK 156 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

PHOTO REFERENCE:

25X1D



25X1

25X1C SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
NPIC/R-218/66  
15 January 1968

TIEN HUONG PETROLEUM PRODUCTS STORAGE

WJ677533  
UTM COORDINATES

211655N 1053912E  
GEOGRAPHIC COORDINATES



25X1

25X1C B238  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET

25X1

25X1

BE NUMBER	WF932182 UTM COORDINATES	181504N 1055300E GEOGRAPHIC COORDINATES
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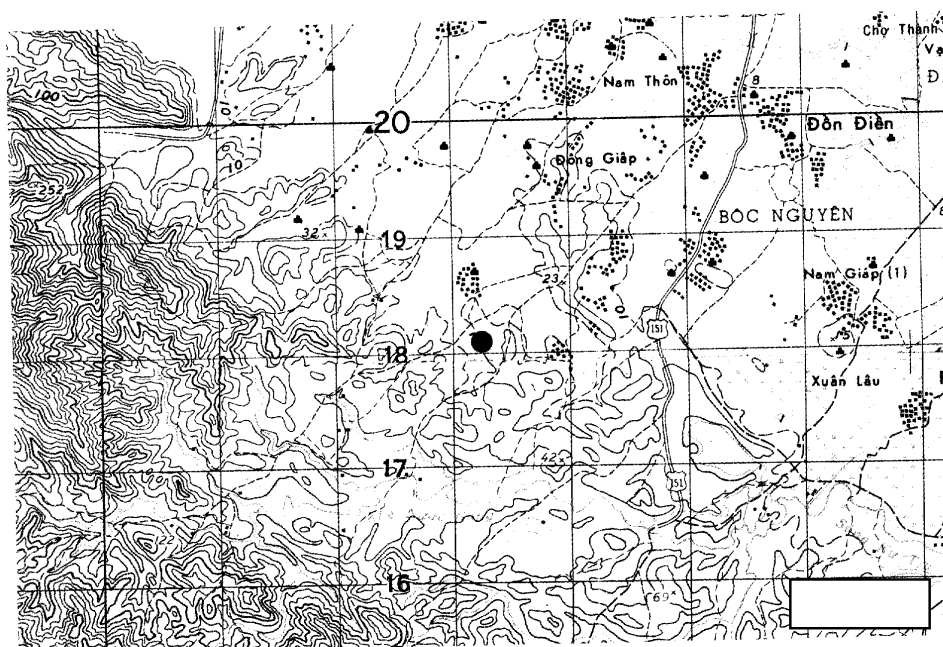
NAME: BAU ME PETROLEUM PRODUCTS STORAGE

LOCATION: 2.8 NM NW OF BAU ME.

DESCRIPTION: STORAGE AREA CONTAINS 8 LARGE BUNKERED TANKS, 2 LARGE TANKS IN OPENED EXCAVATIONS, AND 5 EMPTY EXCAVATIONS.

ESTIMATED CAPACITY: TANK 250 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6145 I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)



25X1

25X1G  
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SECRET  
NPIC/R-218/66  
15 January 1968

BAU ME PETROLEUM PRODUCTS STORAGE

WF932182  
UTM COORDINATES

181504N 1055300E  
GEOGRAPHIC COORDINATES



25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET  
B240

25X1



BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
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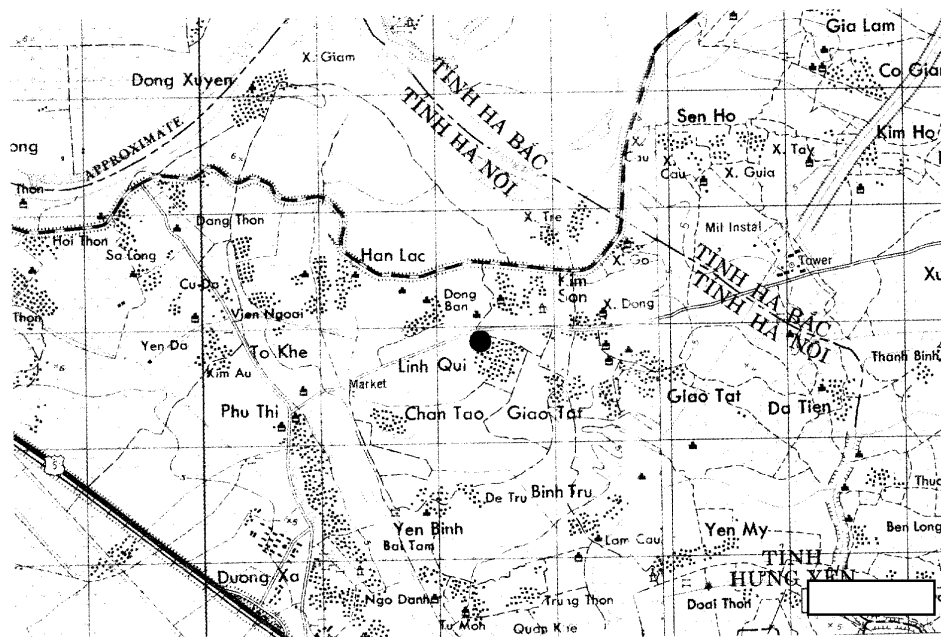
NAME: DUONG XA PETROLEUM PRODUCTS STORAGE

LOCATION: 1.2 NM NE OF DUONG XA, 0.9 NM SOUTH OF THE CANAL DES RAPIDES.

DESCRIPTION: [REDACTED] REVEALS THE STORAGE AREA CONTAINS AT LEAST 41 STANDARD BUNKERED TANKS, 7 STANDARD TANKS ABOVEGROUND, AND 2 LARGE BUNKERED TANKS. PHOTOGRAPHY [REDACTED] REVEALS THE STORAGE SITE IS HARDENED WITH MOST TANKS COVERED BY DENSE VEGETATION. NO ABOVEGROUND TANKS ARE OBSERVED ON THIS DATE.

ESTIMATED CAPACITY: TANK 542 MT

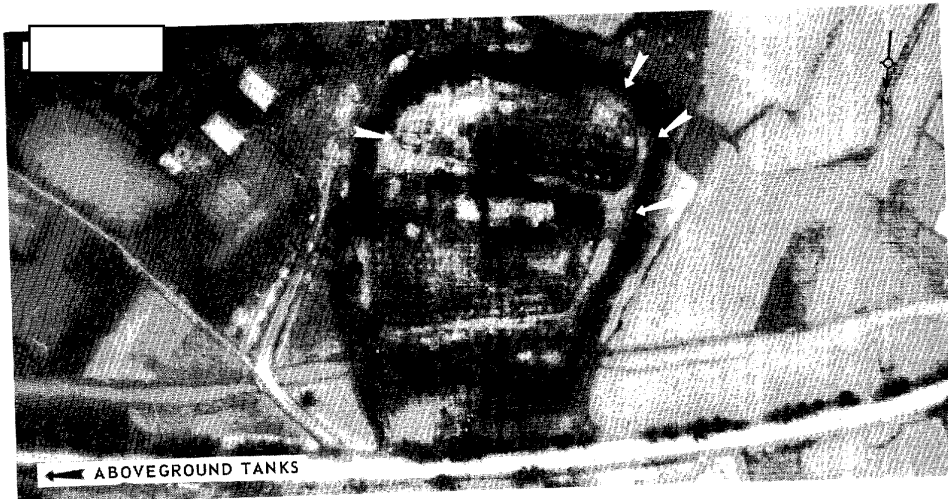
MAP REFERENCES: AMS SERIES L7014, SHEET 6151 II, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



DUONG XA PETROLEUM PRODUCTS STORAGE

XJ023248  
UTM COORDINATES

210128N 1055904E  
GEOGRAPHIC COORDINATES



25X1

25X1C

SECRET

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7 R-218/66  
15 January 1968

25X1A

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Nam Lo Petroleum Products Storage	X-B161
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25X1C

Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1

25X1

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25X1

25X1

25X1C SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7 NPIC/R-218/66  
15 January 1968  
DAO QUAN PETROLEUM PRODUCTS STORAGE EAST

XJ249708  
UTM COORDINATES

25X1A

212610N 1061222E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE AREA IS 0.1 NM EAST OF DAO QUAN, ON THE SOUTH BANK OF THE SONG THUONG (RIVER). IT FORMERLY CONTAINED 28 BURIED TANKS, 6 CAMOUFLAGED ABOVEGROUND TANKS, 3 TANKS VISIBLE IN EXCAVATIONS, AND 1 OPEN EXCAVATION. THE ESTIMATED CAPACITY WAS 444 MT. PHOTOGRAPHY OF [REDACTED] REVEALS 6 TANKS IN EXCAVATIONS, 1 ABOVEGROUND TANK, AND 52 EMPTY EXCAVATIONS. THE PRESENT ESTIMATED CAPACITY IS 84 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWELVE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 12 ADDITIONAL SAM SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY IN THE NEARBY KEP AREA INCLUDES 25 ACTIVE AAA SITES CONSISTING OF 92 OCCUPIED 57MM/85MM REVETMENTS AND 66 OCCUPIED 37MM REVETMENTS. IN ADDITION, THERE ARE 5 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

25X1C

X-B47

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25X1

25X1C

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NPIC/R-218/66  
15 January 1968

SECRET

DAO QUAN PETROLEUM PRODUCTS STORAGE WEST

XJ240696  
UTM COORDINATES

25X1A

212530N 1061155E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES ABOUT 0.8 NM SSW OF DAO QUAN, ABOUT HALFWAY BETWEEN HA NOI AND THAI NGUYEN. IT FORMERLY CONTAINED 32 BUNKERED HORIZONTAL POL TANKS IN A SQUARE PATTERN WITH A TOTAL CAPACITY OF 384 MT. PHOTOGRAPHY OF [REDACTED] REVEALS 17 TANKS IN EXCAVATIONS AND 5 ABOVEGROUND TANKS, OF WHICH 1 IS PROBABLY DAMAGED. THE PRESENT ESTIMATED CAPACITY IS 162 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

ELEVEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 22 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY IN THE NEARBY KEP AREA INCLUDES 25 ACTIVE AAA SITES CONSISTING OF 92 OCCUPIED 57MM/85MM REVETMENTS AND 66 OCCUPIED 37MM REVETMENTS. IN ADDITION, THERE ARE 5 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B49

25X1C

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SECRET

25X1

25X1C SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
PHU LO PETROLEUM PRODUCTS STORAGE NNE UNDERGROUND

NPIC/R-218/66  
15 January 1968

WJ321688  
UTM COORDINATES

25X1A

212455N 1051834E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 0.2 NM NE OF ROUTE 2 AND 0.6 NM NNE OF PHU LO. IT FORMERLY CONSISTED OF 19 BUNKERED POL TANKS AND 8 EXCAVATIONS WITH AN ESTIMATED CAPACITY OF 228 MT. PHOTOGRAPHY OF [REDACTED] REVEALS THAT ALL TANKS HAVE BEEN REMOVED.

25X1

THIS AREA WAS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

ELEVEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 10 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY IN THE THACH SON AREA INCLUDES 4 ACTIVE SITES CONSISTING OF 16 OCCUPIED 57MM/85MM REVETMENTS AND 8 OCCUPIED 37MM REVETMENTS. IN ADDITION, THERE ARE 3 INACTIVE SITES IN THE AREA. SPARSE TO MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B95

25X1C SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1

25X1

25X1C  
SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
LANG COC PE  
NPIC/R-218/66  
15 January 1968

WH862730  
UTM COORDINATES

25X1A

203320N 1054939E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 0.5 NM NE OF LANG COC, 0.3 NM EAST OF ROUTE 21, AND 1.2 NM SOUTH OF THE SONG DAY (RIVER). IT CONTAINS 15 SEPARATELY BUNKERED PUG TANKS WITH AN ESTIMATED CAPACITY OF 375 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET LIES WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B223

25X1C  
SECRET  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7

25X1



25X1

25X1C  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET  
NPIC/R-218/66  
January 1968  
BINH PHU PETROLEUM PRODUCTS STORAGE NORTH

XJ028105  
UTM COORDINATES

25X1A

205345N 1055920E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS LOCATED 1 NM NORTH OF BINH PHU AND 4.4 NM EAST OF THE RED RIVER. IT CONTAINS 8 PUG TANKS AND 3 ABOVEGROUND TANKS. ESTIMATED CAPACITY IS 132 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

25X1C-B225

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SECRET

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**SECRET**  
Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
NPIC/R-218/66  
10038-7  
KIEU YEN THUONG PETROLEUM PRODUCTS STORAGE

XJ654047  
**UTM COORDINATES**

25X1A

205012N 1063525E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.4 NM WSW OF KIEU YEN THUONG, ON THE EAST BANK OF THE LACH TRAY (RIVER). IT CONTAINS 15 PUG TANKS WITH AN ESTIMATED CAPACITY OF 180 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET LIES WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN OBSERVED WITHIN 3 NM OF THE TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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X-B227

25X1C

**SECRET**  
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**SECRET**  
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NPIC/R-218/66  
January 1968  
HIEN LUONG PETROLEUM PRODUCTS STORAGE

WJ808498  
**UTM COORDINATES**

211500N 1054640E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE, 0.6 NM WEST OF HIEN LUONG, CONTAINS 10 PUG TANKS WITH AN ESTIMATED CAPACITY OF 120 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET LIES WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM.

RESTORATION OF THIS SITE TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1C  
PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B229

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**SECRET**

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SECRET  
NPJC/R-218/66  
15 January 1968  
HOAN HA PETROLEUM PRODUCTS STORAGE

XK176085  
UTM COORDINATES

214620N 1060818E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 1.3 NM WSW OF HOAN HA; IT CONTAINS 50 PUG TANKS WITH AN ESTIMATED CAPACITY OF 1,250 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET LIES WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. NO AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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X-B231

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NPIC/R-218/66  
15 January 1968  
BAN YEN NHAN

XJ058165  
**UTM COORDINATES**

205650N 1060103E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 1.5 NM NW OF BAN YEN NHAN; IT CONTAINS 15 LARGE AND 6 STANDARD PUG TANKS WITH AN ESTIMATED CAPACITY OF 447 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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Approved For Release 2003/08/04 : CIA-RDP78B04560A005500010038-7  
SECRET  
QUYNH DO PETROLEUM PRODUCTS STORAGE  
NPIC/R-218/66  
15 January 1968

WJ865158  
UTM COORDINATES

205631N 1054956E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 0.7 NM WEST OF QUYNH DO. IT CONTAINS 15 LARGE TANKS PUG, 1 STANDARD TANK PUG, AND 1 SMALL TANK ABOVEGROUND. THE SITE HAS AN ESTIMATED CAPACITY OF 394 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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25X1C

X-B235

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NPIC/R-218/66  
January 1968  
TIENT HUONG PETROLEUM PRODUCTS STORAGE

WJ677533  
**UTM COORDINATES**

211655N 1053912E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE, CONTAINING 13 PUG TANKS WITH AN ESTIMATED CAPACITY OF 156 MT, LIES 1 NM NNW OF TIEN HUONG.

IT IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET LIES WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. ACTIVE AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B237

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SECRET  
BAU ME PET

NPIC/R-218/66  
15 January 1968

WF932182  
UTM COORDINATES

25X1A

181504N 1055300E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 2.8 NM NW OF BAU ME. IT CONSISTS OF 10 PUG TANKS WITH AN ESTIMATED CAPACITY OF 250 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM OF THIS SITE; HOWEVER, IT IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 - 2 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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SECRET  
NPIC/R-218/66  
15 January 1968  
DUONG XA PETROLEUM PRODUCTS STORAGE

XJ023248  
UTM COORDINATES  
25X1A  
210128N 1055904E  
GEOGRAPHIC COORDINATES

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 1.2 NM NE OF DUONG XA AND 0.9 NM SOUTH OF THE CANAL DES RAPIDES. IT CONSISTS OF AT LEAST 41 STANDARD AND 2 LARGE PUG TANKS WITH AN ESTIMATED CAPACITY OF 542 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET IS WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES; ACTIVE AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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 1968

## ANNEX II

25X1A

	<u>Installation Name</u>	<u>Capacity</u>	
		<u>MT Water</u>	<u>MT POL</u>
	Viet Tri Petroleum Products Storage	25	21
	Phuc Yen Airfield POL Storage Area	4,200	3,530
	Hia Gia Petroleum Products Storage SSW UG	9,188	7,718
	Ha Noi Petroleum Products Storage Thanh Am	600	504
	Nguyen Khe Petroleum Products Storage	5,925	4,977
	Bac Giang Petroleum Products Storage	1,900	1,596
	Nam Dinh Petroleum Products Storage	13,120	11,021
	Hai Phong Petroleum Products Storage	48,348	40,612
	Duong Nham Petroleum Products Storage	--	--
	Do Son Petroleum Products Storage	--	--
	Phu Van POL Storage	--	--
	Vinh Petroleum Products Storage	1,600	1,344
	Phu Qui Petroleum Products Storage	9,000	7,560
	Hia Noi/Gia Lam Airfield POL Storage Area	850	714
	La Danh Petroleum Products Storage PUG	2,359	1,982
	Van Lung Petroleum Products Storage UG	352	295
	Van Lung Petroleum Products Storage West UG	84	71
	Hoang Mai POL Storage Area	300	252
	Ha Noi Petroleum Products Thi Cam	468	393
	Bai Thuong Petroleum Products Storage UG Southeast	555	466
	Son La Petroleum Products Storage	384	323
	Thuong Thon Petroleum Products Storage UG	--	--
	Ngoc Son Petroleum Products Storage PUG	348	292
	Thai Lai Petroleum Products Storage	120	101
	Yen Hau Petroleum Products Storage PUG	192	161
	Thanh Lang Petroleum Products Storage PUG	1,044	877
	Ha Noi Petroleum Products Storage UG Thanh Liet (Area 1)	516	433
	Ha Noi Petroleum Products Storage UG Thanh Liet (Area 2)	120	101
	Bang So Petroleum Products Storage PUG	234	197
	Son Chau Petroleum Products Storage PUG	--	--
	Can Thon Petroleum Products Storage	925	777
	Ha Noi Petroleum Products Storage Duc Noi (Area 1)	1,108	931
	Ha Noi Petroleum Products Storage Duc Noi (Area 2)	849	713
	Ha Noi Petroleum Products Storage Duc Noi (Area 3)	300	252
	Ha Noi Petroleum Products Storage Duc Noi (Area 4)	132	111

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 15 January 1968

25X1A

## ANNEX II (Continued)

	Installation Name	Capacity	
		MT Water	MT POL
	Cu Van Petroleum Products Storage	850	714
	Cu Van Petroleum Products Storage East UG	1,300	1,092
	Dao Quan Petroleum Products Storage East	84	71
	Dao Quan Petroleum Products Storage West	162	136
	Nam Dinh Petroleum Products Storage PUG	300	252
	Thai Nguyen Petroleum Products Storage PUG South	1,320	1,109
	Phuc Yen Airfield POL Storage Area 1	300	252
	Phuc Yen Airfield POL Storage Area 2	750	630
	Xom Duong Quan Petroleum Products Storage UG East	72	60
	Xom Duong Quan Petroleum Products Storage UG	43	36
	Nui Tap Tinh POL Storage Area	26.6	22.3
	Sac Le POL Storage Area	168	141
	Phu Dong POL Storage Area	420	352
	Thuan Le POL Storage Area	273	229
	Phuc Loc Petroleum Products Storage	156	131
	Thanh Hoa POL Storage Area	118	99
	Ba Don Petroleum Products Storage	84	71
	Phuc Loi Petroleum Products Storage Navy	300	252
	Tho Trang Petroleum Products Storage	250	210
	Ninh Giang Petroleum Products Storage	342	272
	Dong Chau Petroleum Products Storage	612	514
	Kep Ha Petroleum Products Storage	96	81
	Tien Hoi Petroleum Products Storage	468	393
	Dong Mai Petroleum Products Storage	276	232
	Xom Lang POL Storage	312	262
	Van Hoa POL Storage	144	121
	Phu Lo Petroleum Products Storage NNE UG	--	--
	Juane Island POL Storage	48	40
	Co Nhue Vien Petroleum Products Storage	744	625
	Quang Suoi Petroleum Products Storage	--	--
	Trung Phu Petroleum Products Storage	184	155
	Gia Hoa Petroleum Products Storage PUG	132	111
	Bai Chay Petroleum Products Storage	53	45
	Vinh Petroleum Products Storage Yen Thinh	132	111
	Ba Don Petroleum Products Storage PUG West	72	61
	Bac Ninh Petroleum Products Storage	204	169
	Vinh Petroleum Products Storage PUG Xuan Yen	70	59

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## ANNEX II (Continued)

25X1A Ref No	Installation Name	Capacity	
		MT Water	MT POL
	Tri Binh Petroleum Products Storage	48	40
	Xuyen Duong Petroleum Products Storage	--	--
	Cau Cong Petroleum Products Storage	384	323
	Tung Tu Petroleum Products Storage UG	375	315
	Don Son Petroleum Products Storage	744	625
	Quy Khe Petroleum Products Storage	1,344	1,129
	Tran Xa Petroleum Products Storage	1,250	1,050
	Than Hoa Petroleum Products Storage	84	71
	Tram Du Petroleum Products Storage	1,050	882
	Luc Nong Petroleum Products Storage	720	605
	Thai Nguyen Petroleum Products Storage	99	83
	Tien Nong Petroleum Products Storage	432	363
	Vinh Petroleum Products Storage PUG Ben Thuy	168	141
	Chi Linh Petroleum Products Storage	1,728	1,452
	Vinh Petroleum Products Storage PUG Yen Dai	72	60
	Hoang Pha Petroleum Products Storage	240	202
	Kien An POL Storage	288	242
	Phu Thi Petroleum Products Storage	360	302
	Phu Tri Petroleum Products Storage West	164	138
	Vinh Petroleum Products Storage North UG	96	81
	Mach Trang Petroleum Products Storage	112	94
	Tram Bac Petroleum Products Storage	1,275	1,071
	Nam Lo Petroleum Products Storage	1,000	840
	Ha Noi Petroleum Products Storage Duc Noi (Area 5)	261	219
	Hai Gia Petroleum Products Storage NW	936	786
	Phu Xa Petroleum Products Storage	200	168
	Hoa Loan Petroleum Products Storage	108	91
	Tu Hoang Petroleum Products Storage	175	148
	Tay Tuu Petroleum Products Storage East	325	273
	Nguyen Khe Petroleum Products Storage	36	30
	Cap Dien Petroleum Products Storage	216	181
	Vinh Petroleum Products Storage PUG North No 2	375	315
	Xom Thap Petroleum Products Storage	180	151
	Vinh Petroleum Products Storage PUG North No 3	54	45
	Cu Hap Petroleum Products Storage	100	84
	Xuan Mai Petroleum Products Storage	750	630
	Dong Xuan Petroleum Products Storage	504	423
	Vinh Petroleum Products Storage SE PUG	147	124

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ANNEX II (Continued)

25X1A  
REF No

	<u>Installation Name</u>	<u>Capacity</u>	
		<u>MT Water</u>	<u>MT POL</u>
	Kep Petroleum Products Storage	500	420
	Dong Sang Petroleum Products Storage	120	109
	Lap Tri Petroleum Products Storage	975	819
	Long Dai Petroleum Products Storage	225	189
	Luc Nong Petroleum Products Storage	720	605
	Quynh Hoang Petroleum Products Storage	350	294
	Lang Son Petroleum Products Storage SE	300	252
	Xa Son Petroleum Products Storage	800	672
	Cam Lam Thuong Petroleum Products Storage	400	336
	Phu Qui Petroleum Products Storage PUG No 2	35	29
	Khon Phai Dan Petroleum Products Storage	325	273
	Na Pia Petroleum Products Storage NW	200	168
	Dong Dang Petroleum Products Storage No 2	1,450	1,218
	Dong Dang Petroleum Products Storage No 1	264	222
	Na Pia Petroleum Products Storage	1,050	882
	Lang Coc Petroleum Products Storage	375	315
	Binh Phu Petroleum Products Storage North	132	111
	Kieu Yen Thuong Petroleum Products Storage	180	151
	Hien Luong Petroleum Products Storage	120	101
	Hoan Ha Petroleum Products Storage	1,250	1,050
	Ban Yen Nhan Petroleum Products Storage	447	375
	Quynh Do Petroleum Products Storage	394	331
	Tien Huong Petroleum Products Storage	156	131
	Bau Me Petroleum Products Storage	250	210
	Duong Xa Petroleum Products Storage	542	455

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XUYEN DUONG PETROLEUM PRODUCTS STORAGE	2048	N	10540	E	B119, X-B119
BANG SO PETROLEUM PRODUCTS STORAGE PUG	2053	N	10553	E	B29, X-B29
BINH PHU PETROLEUM PRODUCTS STORAGE NORTH	205345N	1055920E	B225, X-B225		
XUAN MAI PETROLEUM PRODUCTS STORAGE	2054	N	10537	E	B187, X-B187
QUYNH DO PETROLEUM PRODUCTS STORAGE	205631N	1054956E	B235, X-B235		
HA NOI PET PROD STOR UG THANH LIET (AREA 1)	2057	N	10548	E	B25, X-B25
HA DONG POL TRUCKS	2057	N	10549	E	D23
POL TANKS (VAN DIEN ARMY SUPPLY DEPOT)	2057	N	10550	E	D25
HA NOI PET PROD STOR UG THANH LIET (AREA 2)	2058	N	10548	E	B27, X-B27
HA DONG TANK FABRICATION AREA	205925N	1054801E	D59		
POL TANKS IN HA NOI	2059	N	10550	E	D35
CO TRUNG POL STORAGE SITE	2012	N	10615	E	D19
NAM DINH PETROLEUM PRODUCTS STORAGE	2024	N	10610	E	A13, X-A13
NAM DINH PETROLEUM PRODUCTS STORAGE PUG	2026	N	10613	E	B51, X-B51
NAM LU PETROLEUM PRODUCTS STORAGE	2032	N	10617	E	B161, X-B161
CAU CONG PETROLEUM PRODUCTS STORAGE	2039	N	10610	E	B121, X-B121
DONG CHAU PETROLEUM PRODUCTS STORAGE	2039	N	10613	E	B83, X-B83
DO SON PETROLEUM PRODUCTS STORAGE	2042	N	10647	E	A19, X-A19
DO SON POL DRUM STORAGE	2043	N	10647	E	C9
NINH GIANG PETROLEUM PRODUCTS STORAGE	2045	N	10631	E	B81, X-B81
KIEN AN PETROLEUM PRODUCTS STORAGE	2047	N	10637	E	B149, X-B149
TIEN HOI PETROLEUM PRODUCTS STORAGE	2049	N	10635	E	B87, X-B87
CUU VIEN POL STORAGE AREA	2049	N	10638	E	C15
POL TRUCKS ON POLISH SHIP (HAI PHONG AREA)	2049	N	10647	E	D33
KIEU YEN THUONG PETROLEUM PRODUCTS STORAGE	205012N	1063525E	B227, X-B227		
POL STORAGE TANKS HAI PHONG	2050	N	10640	E	D51
HAI PHONG TANK FABRICATION SHOP EAST	2050	N	10641	E	D57
TRAM BAC PETROLEUM PRODUCTS STORAGE	2051	N	10635	E	B159, X-B159
PHU XA PETROLEUM PRODUCTS STORAGE	2051	N	10644	E	B167, X-B167
TANKER - POL BARGE OFFLOADING	205118N	1064600E	D61		
HAI PHONG PETROLEUM PRODUCTS STORAGE	2052	N	10639	E	A15, X-A15
POL TANKS AT HAI PHONG THERMAL POWERPLANT	2052	N	10642	E	D49
QUYNH HOANG PETROLEUM PRODUCTS STORAGE	205303N	1063600E	B203, X-B203		
CONG MY TRANSHIPMENT FAC AND POL BARGES	2053	N	10637	E	D39
HOANG PHA PETROLEUM PRODUCTS STORAGE	2054	N	10637	E	B147, X-B147
TIEN NONG PETROLEUM PRODUCTS STORAGE	2055	N	10633	E	B139, X-B139
LUC NONG PETROLEUM PRODUCTS STORAGE	2055	N	10634	E	B201, X-B201
LUC NONG PETROLEUM PRODUCTS STORAGE	2055	N	10634	E	B135, X-B135
THAI LAI PETROLEUM PRODUCTS STORAGE	2055	N	10637	E	B19, X-B19
HAN YEN NHAN PETROLEUM PRODUCTS STORAGE	205650N	1060108E	B233, X-B233		
TRAM DU PETROLEUM PRODUCTS STORAGE	2058	N	10617	E	B133, X-B133
THANH LANG PETROLEUM PRODUCTS STORAGE PUG	2058	N	10636	E	B23, X-B23
CAM LAM THUONG PETROLEUM PRODUCTS STORAGE	205920N	1062726E	B209, X-B209		
SOVIET TANKER WITH MOTORIZED POL BARGES	2051	N	10707	E	D27
HON GAI POL DRUM STORAGE	2056	N	10705	E	C5
BAI CHAY PETROLEUM PRODUCTS STORAGE	2057	N	10703	E	B107, X-B107
SAC LE POL STORAGE AREA	2057	N	10708	E	B65, X-B65
SAC LE POL TANKS	2058	N	10709	E	D17
SON LA PETROLEUM PRODUCTS STORAGE	2117	N	10356	E	B13, X-B13

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HA NOI PETROLEUM PRODUCTS THI CAM	2101 N 10545 E B9, X-B9
HA NOI PROBABLE POL TANK FABRICATION AREA 1	2101 N 10549 E D3
HA NOI PROBABLE POL TANK FABRICATION AREA 2	2101 N 10549 E D5
HA NOI POL TANKS	2101 N 10550 E D47
PHU THI PETROLEUM PRODUCTS STORAGE	2101 N 10558 E B151, X-B151
DUONG XA PETROLEUM PRODUCTS STORAGE	210120N 1055904E B241, X-B241
CO NHUE VIEN PETROLEUM PRODUCTS STORAGE	210250N 1054625E B99, X-B99
HANOI/GIA LAM AIRFIELD POL STORAGE AREA	2102 N 10553 E A27, X-A27
TAY TUU PETROLEUM PRODUCTS STORAGE EAST	2103 N 10544 E B173, X-B173
TU HOANG PETROLEUM PRODUCTS STORAGE	2103 N 10544 E B171, X-B171
HA NOI PETROLEUM PRODUCTS STORAGE THANH AM	2103 N 10553 E A7, X-A7
PHU DONG POL STORAGE AREA	2103 N 10556 E B67, X-B67
THUY PHUONG POL STORAGE TANKS	2105 N 10546 E D1
MACH TRANG PETROLEUM PRODUCTS STORAGE	2106 N 10551 E B157, X-B157
HA NOI PETROLEUM PROD STOR DUC NOI (AREA 4)	2107 N 10551 E B41, X-B41
HA NOI PETROLEUM PROD STOR DUC NOI (AREA 1)	2107 N 10552 E B35, X-B35
HA NOI PETROLEUM PROD STOR DUC NOI (AREA 2)	2107 N 10552 E B37, X-B37
HA NOI PETROLEUM PROD STOR DUC NOI (AREA 3)	2107 N 10552 E B39, X-B39
DONG SANG PETROLEUM PRODUCTS STORAGE	210820N 1052625E B195, X-B195
POL STORAGE TANKS XOM DONG	2108 N 10549 E D53
HA NOI PETROLEUM PROD STOR DUC NOI (AREA 5)	2108 N 10551 E B163, X-B163
NGUYEN KHE PETROLEUM PRODUCTS STORAGE	2110 N 10551 E A9, X-A9
NGUYEN KHE PETROLEUM PRODUCTS STORAGE	2110 N 10551 E B175, X-B175
PHU TRI PETROLEUM PRODUCTS STORAGE WEST	211252N 1054225E B153, X-B153
PHUC YEN AIRFIELD POL STORAGE AREA	2114 N 10548 E A3, X-A3
TIEN LUONG PETROLEUM PRODUCTS STORAGE	211500N 1054640E B229, X-B229
PHUC YEN AIRFIELD POL STORAGE A2	2115 N 10549 E B57, X-B57
PHUC YEN POL TRUCK DISPERSAL AREA	2115 N 10550 E D15
NINH BINH (POL TANKS IN SAMPAN)	2115 N 10559 E D7
HOA LOAN PETROLEUM PRODUCTS STORAGE	2116 N 10529 E B169, X-B169
TIEN HUONG PETROLEUM PRODUCTS STORAGE	211655N 1053912E B237, X-B237
PHUC YEN AIRFIELD POL STORAGE AREA 1	2116 N 10549 E B55, X-B55
HA GIA PETROLEUM PRODUCTS STORAGE SSW UG	2116 N 10550 E A5, X-A5
VIET TRI PETROLEUM PRODUCTS STORAGE	2117 N 10526 E A1, X-A1
LAP TRI PETROLEUM PRODUCTS STORAGE	211716N 1054609E B197, X-B197
POL STOR PHU THO CHEM FERT PLT LAM THAO	2119 N 10517 E D29
VAN LUNG PETROLEUM PROD STORAGE WEST UG	2120 N 10521 E B5, X-B5
VAN LUNG PETROLEUM PRODUCTS STORAGE UG	2120 N 10522 E B3, X-B3
HA GIA PETROLEUM PRODUCTS STORAGE NW	2120 N 10550 E B165, X-B165
PHU LO PETROLEUM PRODUCTS STORAGE NNE UG	212455N 1051834E B95, X-B95
LANG KHE POL STOR AREA UNDER CONSTRUCTION	2127 N 10549 E D11
THAI NGUYEN PETROLEUM PROD STOR PUG SOUTH	2129 N 10551 E B53, X-B53
TUNG TU PETROLEUM PRODUCTS STORAGE UG	2129 N 10552 E B123, X-B123
THON NIEU TANK FAB AREA (THAI NGUYEN)	2132 N 10552 E D43
THAI NGUYEN PETROLEUM PRODUCTS STORAGE	2136 N 10548 E B137, X-B137
THAI NGUYEN THERMAL POWERPLANT (POL STORAGE)	2136 N 10549 E D41
CU VAN PETROLEUM PRODUCTS STORAGE	2137 N 10543 E B43, X-B43
CU VAN PETROLEUM PRODUCTS STORAGE EAST UG	2138 N 10544 E B45, X-B45
LA DANH PETROLEUM PRODUCTS STORAGE PUG	2139 N 10550 E B1, X-B1
XA SON PETROLEUM PRODUCTS STORAGE	210058N 1062503E B207, X-B207

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GUY KHE PETROLEUM PRODUCTS STORAGE  
 DUONG NHAM PETROLEUM PRODUCTS STORAGE  
 DON SON PETROLEUM PRODUCTS STORAGE  
 UONG BI POWERPLANT (PETROLEUM PROD STOP)  
 CAP DIEN PETROLEUM PRODUCTS STORAGE  
 TRAN XA PETROLEUM PRODUCTS STORAGE  
 NUI TAP TINH POL STORAGE AREA  
 CHI LINH PETROLEUM PRODUCTS STORAGE  
 DONG MAI PETROLEUM PRODUCTS STORAGE  
 BAC NINH PETROLEUM PRODUCTS STORAGE  
 HOANG MAI POL STORAGE AREA  
 BAC GIANG PETROLEUM PRODUCTS STORAGE  
 TRUNG PHU PETROLEUM PRODUCTS STORAGE  
 CAN THON PETROLEUM PRODUCTS STORAGE  
 KEP HA PETROLEUM PRODUCTS STORAGE  
 KEP PETROLEUM PRODUCTS STORAGE  
 DAO QUAN PETROLEUM PRODUCTS STORAGE WEST  
 DAO QUAN PETROLEUM PRODUCTS STORAGE EAST  
 HOAN HA PETROLEUM PRODUCTS STORAGE  
 LANG SON PETROLEUM PRODUCTS STORAGE SE  
 POL BARGE  
 NA PIA PETROLEUM PRODUCTS STORAGE NW  
 NA PIA PETROLEUM PRODUCTS STORAGE  
 DONG LANG PETROLEUM PRODUCTS STORAGE NO 2  
 DONG LANG PETROLEUM PRODUCTS STORAGE NO 1  
 KHON PHAI DAN PETROLEUM PRODUCTS STORAGE  
 JAUNE ISLAND POL STORAGE  
 VAN HUA POL STORAGE

2100 N 10638 E B127, X-B127  
 2101 N 10630 E A17, X-A17  
 2102 N 10636 E B125, X-B125  
 2102 N 10647 E D37  
 2103 N 10618 E B177, X-B177  
 2103 N 10619 E B129, X-B129  
 2103 N 10648 E B63, X-B63  
 2104 N 10619 E B143, X-B143  
 2104 N 10629 E B89, X-B89  
 2109 N 10604 E B113, X-B113  
 2114 N 10606 E B7, X-B7  
 2116 N 10611 E A11, X-A11  
 2122 N 10619 E B103, X-B103  
 212335N 1061839E B33, X-B33  
 2123 N 10639 E B85, X-B85  
 212415N 1061730E B193, X-B193  
 212530N 1061155E B49, X-B49  
 212610N 1061222E B47, X-B47  
 214620N 1060818E B231, X-B231  
 214800N 1065222E B205, X-B205  
 2151 N 10644 E D21  
 215350N 1062555E B215, X-B215  
 215352N 1062614E B221, X-B221  
 215440N 1064015E B217, X-B217  
 215443N 1064116E B219, X-B219  
 215625N 1062330E B213, X-B213  
 2102 N 10722 E B97, X-B97  
 2112 N 10734 E B93, X-B93

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